

FINANCIAL TIMES

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GENERAL BUSINESS
Crossland
 ill
 tting
 orse

ANTHONY CROSSLAND, Foreign Commonwealth Secretary, reported last night to be recovering following his stroke. He is in the life infirmary, Oxford.

Callaghan was being kept out of his condition but no date moves are planned to sit a Cabinet Minister to replace for the Foreign Secretary. Dr. David M. Minister of State, is expected to act for Mr. Crossland, Richard Evans, Lobby

opposition at Westminster, however, was that Mr. Crossland's illness was so serious that he would be unable to return to office. It is therefore expected that the appointment of a Foreign Secretary will not be delayed.

INDIA
Indira Gandhi
 fight seat

Gandhi, Prime Minister of India, has defied opposition from party leaders and through the nomination of her son, Sanjay, as candidate for Amethi constituency in Uttar Pradesh. It will be the first time she has run for public office.

DEMOCRATS
 in Denmark

election results were a shock for the Social Democratic Party. With 70 per cent of the returns counted the seats are likely to be won by the Prime Minister to a majority coalition with assistance of only one or two parties.

SON
 turns
 tables

David Wilson last night on News at Ten denied Mr. Laidlaw's allegation that Lady Laidlaw was involved in a bribery scandal.

AREAS
 will ask
 EEC entry

Eric Soares, the Portuguese Minister, officially confirmed for the first time yesterday that he would lodge a formal entry application next month.

PRINCE CHARLES
 receives honours

Prince Charles held his first birthday yesterday. Debuting as the Queen at Buckingham Palace, he conferred seven honours and 120 other titles.

NUCLEAR
 demo ban

Local authorities of Schleswig-Holstein have banned a demonstration planned for Saturday against the atomic station at Borssele, which is the focus of a German protest against nuclear power.

AFYON
 memorial service

Minister of State, yesterday attended by 1,500 people, at a memorial service in Afyon, Turkey.

STOCK PRICE CHANGES YESTERDAY

Land Securities	152 + 5
Lloyds Bank	187 + 12
Lucas Inds.	222 + 7
Morris (H.)	147 + 7
National	217 + 12
Racal Electronics	286 + 9
Ramsay	170 + 4
Sunley (R.)	126 + 16
Tate and Lyle	255 + 6
Thompson Org.	405 + 10
Tube Inv.	352 + 12
Union Discount	283 + 10
Waters	424 + 14
Wattman	150 + 8
Shell	914 + 10
BP Transport	496 + 6
Tricon	128 + 10

FALLS

Kitchen (R.) Taylor	54 - 6
Pritmore	28 - 6
Selection Trust	440 - 16

TUC unwilling to discuss pay curbs until after Budget

BY ROY ROGERS, LABOUR CORRESPONDENT

TUC leaders will to-night tell Mr. Denis Healey, the Chancellor of the Exchequer, that they are not prepared to negotiate a new phase of wage restraint to begin in August, before they have seen his spring Budget.

They are due to meet the Chancellor and other Ministers for talks over dinner following support of an end to wage restraint.

After the meeting in Birmingham, Mr. Derek Robinson, the chairman of the unofficial but influential Leyland stewards committee, gave a warning that the Government and the day strike and lobby of Parliament, probably after Easter, for talks over dinner following support of an end to wage restraint.

After the meeting in Birmingham, Mr. Derek Robinson, the chairman of the unofficial but influential Leyland stewards committee, gave a warning that the Government and the

This view was emphasised yesterday by Mr. Hugh Scanlon, president of the amalgamated Union of Engineering Workers, after a slution executive decided to oppose any move to call an early special TUC conference or Congress on pay.

He stressed that he was against any meetings to determine pay policy before the individual union conferences, adding ominously that wages policy resolutions coming in for the AUEW's policy-making national committee in May were "almost overwhelmingly" calling for a return to free collective bargaining.

As if to underline this yesterday, 500 shop stewards representing about 130,000 workers at British Leyland called for a one-

Saudi price-rigging claim over power tenders

BY OUR INDUSTRIAL STAFF

BRITISH COMPANIES tendering for a £700m. electrification scheme in Saudi Arabia have been shocked by allegations of price-rigging among the eight international competitors.

The contracts involved provision of transformers, switchgear, electric power lines and diesel-powered generator sets, with extensive civil engineering works in four areas: Jizan, Al-Kharj (south of Riyadh); Bahah; and Asir.

The power stations were to be relatively small, at between 33MW and 50MW. The individual generator sets were between 5MW and 10MW each.

It is reported from Jeddah that the companies who tendered for these jobs will be barred from the second round, in which new bids will be invited from "friendly countries and companies."

But the British companies, whose tenders were at the higher end of the range, hope they will be given another opportunity to compete.

After listening to price-fixing has been greeted with some consternation in the industry because of the potential importance of the Saudi Government

Devolution Bill in more trouble

BY PHILIP RAWSTORNE

THE GOVERNMENT'S devolution legislation ploughed deeper into difficulties in the Commons last night despite further concessions designed to speed its passage.

Mr. Michael Foot, leader of the House, announced major changes in the proposed referendums in Scotland and Wales.

The referendums would be consultative and not mandatory, he said. In addition the form of the question would be revised and the terms of the Bill altered to emphasise that the results would not affect the unity of the U.K.

The concessions, which followed a 60-minute discussion of Government tactics in Downing Street, were intended to appease both Tory and Labour critics.

But the move merely sparked another rebellion. Labour anti-devolutionists, joined by Tory Tories, protested that the changes had created even more confusion.

Mr. Eric Heffer, a leading Left-winger, forced a vote to adjourn the Committee stage. Now in its ninth day — until the Government introduced amendments to clarify its intentions.

The Government averted the loss of another seven hours' debate by defeating the move by 251 votes to 202 — a majority of 59. Scottish Nationalists, though protesting about the changes, voted with the Government.

The immediate reaction held out little hope that the Govern-

Callaghan calls CBI to Bullock talks

By John Elliott, Management Editor

THE PRIME MINISTER formally launched the Government's bid last night to coax the CBI into accepting industrial democracy legislation when he invited their leading representatives to start talks on participating below Board level with senior Ministers.

But this does not mean that the Government intends to budget from its commitment to introduce legislative proposals this summer on worker directors, following publication last month of the Bullock Report.

Its significance is that, as the Prime Minister said last night, the Government wants to achieve the largest possible measure of agreement for its worker-director legislation. To start their post-Bullock consultations with the CBI by examining the problems of participation from the shop floor upwards.

Delegation

Lord Watkinson, the CBI president, who led a six-man delegation of senior industrialists to the hour-long meeting with the Prime Minister at Westminster, said he would put the offer to the monthly meeting of the CBI's Grand Council to-day.

If, as seems likely, the council accepts, Mr. John Methven, CBI director-general, will hold exploratory talks with Mr. Edmund Dell, Secretary for Industry.

The Prime Minister was accompanied at the talks by Mr. Dell; Mr. Eric Varley, Secretary for Industry; and Mr. Albert Booth, Secretary for Employment. He said that he respected and understood the CBI's objections, even if he could not accept them.

The CBI leaders based their objections on their three basic sticking points on which they say they are not prepared to consult.

These are statutory imposition of trade union-nominated worker directors, parity of representation, and unions monopolising the choice of the worker directors.

"On these three points there can be no give from the CBI at all. These points are not discussable," declared Lord Watkinson.

He summed up the meeting when he said: "We have really not progressed very far; we just have not fallen out at the first fence" and added that he had told the Prime Minister that "if you try to ram the Bullock Report down our throats you will meet unrelenting hostility."

Watkinson on pay curbs. Page 9

Nine agree on fish stock protection

BY ROBIN REEVES BRUSSELS, Feb. 15

A BREAKTHROUGH in the Common Market's long and complicated fisheries negotiations was achieved here to-day when Agriculture and Fisheries Ministers of the Nine reached agreement on the basis for a Community regime to conserve fish stocks inside the new 200-mile limits.

Principal elements in the agreement include:

- 1.—A total ban on North Sea herring fishing between February 28 and April 30, with a possible extension to be considered later.
- 2.—A total ban on Celtic Sea herring fishing from March 1 to the year's end.
- 3.—Closure of an area to the North and East of Scotland to industrial fishing for fishmeal (the so-called Norway punt box) initially from February 28 to April 30, with a later review of the size of the box.
- 4.—Industrial fishing to be subject to a reduction in the maximum whitefish by-catch tolerance in 20 per cent. (from 25 per cent.) from April 1.

In addition, strict controls are envisaged on the activities of factory ships operating inside the Community's new 200-mile zone.

This agreement was crucial in enabling the U.K. to stem back from the unilateral brink—at least for the time being.

Progress would not have been possible had not Mr. Paul Dalgaard, the Danish Agriculture and Fisheries Minister, agreed to lift his Government's overall reservation on last week's partial conservation accord among EEC Foreign Ministers and tried to push the negotiations to a successful conclusion.

Irish ban

While to-day's agreement met the most pressing conservation demands of the British Government, however, it proved insufficient to satisfy Ireland. Mr. Patrick Donaghy, who holds the newly created post of Irish Fisheries Minister, announced that his Government would be introducing from March 1 a unilateral ban prohibiting all vessels of 110 ft. or 1,100 horse-power and over from fishing within an area varying from 50 to 100 miles off the Irish coast, at least until the end of the year.

The Irish move is a reaction to fears that its fish stocks will be irreparably damaged by a greater concentration of fishing activity in Irish waters by EEC boats, following the move to 200-mile limits.

Some anger

While accepting to-day's agreement on other conservation measures, it did not consider them adequate or meet the Community recognition of the Irish fishing industry's special need to expand.

Dublin's unilateral action was the subject of some initial anger, notably from the Germans, the French and the Brussels Commission. The latter warned of

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LOMBARD

Why poor people get poor value

BY ANTHONY HARRIS

SOME potentially rather explosive evidence about poverty has been given to the Royal Commission on the Distribution of Income and Wealth by the National Consumer Council, a body whose potential disturbance-value is beginning to look quite large. Its message is that the poor are poorer than they think, because they get worse value for their money, and that this gap has widened in the last 15 years, and especially in the last 12 months. Labour rule, in other words, is bad for pensioners and the low paid.

Unwelcome

At this stage of the pay negotiations, such an invitation to negotiate for higher pensions, preferential treatment for the low paid, continued subsidies and the rest could hardly be more unwelcome; but since the NCC's case appears well founded, it is important to understand just what it does show and what it doesn't. There are in fact two totally different themes woven together in this evidence—a concept which the NCC calls consumer detriment, and a whole range of work on differential inflation. The first means that the more you get poor value for their money when they spend it; and the second means that the prices of the things they buy rise faster than other prices. The first is a static phenomenon, the second an aspect of inflation, and together they seem likely to inspire confusion of mind.

Consumer detriment is rather an odd concept. It brings together such ideas as that poor customers are exploited by purchase terms, that they tend to shop at high-priced corner stores, that they cannot afford bulk purchases, and that they may be too ignorant to shop around effectively, and are exploited by tallmen, mail order companies and others. Some of these assertions invite scepticism, some help sympathy, and hardly any seem likely to yield to any sort of Government action.

It is not at all easy to know just what the NCC is trying to prove here anyway. The broad and largely unbelievable conclusion is that the poor may be getting value for money 20 per cent worse than the rich, so that the gap in real incomes is that much bigger than the statistics suggest. My own reaction is to ask: so what? This reflects puzzlement, not heartlessness; I simply do not understand the significance of exact numbers in this context. My reaction to the idea that one man is twice as well off as another is exactly the same as my reaction to the idea that he is two and a half times as

well off: how? why? to what purpose? and what has been happening to his real income recently? One of the first lessons I learned in economics was that one cannot say that a doubling of consumption means doubling of happiness; in discussing welfare, one can only say that this man is better off or worse off than another, and better off or worse off than he used to be. The absolute numbers are virtually meaningless.

In any case, the NCC's evidence is rather a mixed batch. Much of it rests on an assertion that poor people depend much more than rich ones on small local shops. I find it hard to believe that this fact has the significance the NCC supposes. It is probably true that small shops—which are mainly in poor areas—have a high proportion of poor customers, but this is not the same as saying that poor people are cut off from keen value.

The high interest rates charged to poor customers, even in furniture shops and car showrooms (where there is some chance of effective recovery in case of bad debt) looks unfair, but almost certainly, in a highly competitive market, reflects relatively high risk and the higher cost of servicing small accounts. If there is abuse in any of these fields, it should be sought out and remedied; but to spend much time on measuring the value-for-money obtained by different classes of shopper for the sake of the arithmetic results would, in my view, be a waste of time.

More equality

The sad thing is that all this nonsense can only distract attention from the really important part of the NCC's evidence—the tentative measurement which suggests that the poor have recently suffered much greater rises in their living costs than the average citizen. This work, pioneered by such economists as John Muellbauer at Pirbright College and David Birchhead of the LSE, draws attention to the fact that we may not have made the progress we suppose in our living costs, and weakest against the effects of inflation. Their work suggests that the apparent increase in pension levels compared with average wages and the apparent move towards greater equality in real incomes in these years, completely once differential inflation is taken into account. This work, which suggests the reason for popular discontent about the results of well-intended policies, suggests an important gap in our knowledge and a field for research which really would bring results.

RACING

BY DOMINIC WIGAN

Confidence in Lanzarote

LANZAROTE must win to-day's Reynoldstown Novices Chase if Fred Winter is to let him take his chance in the Gold Cup. I feel confident he will come through with flying colours. An impressive winner from Julian Swift at Lingfield last time out.

BROOKE BOND OXO'S sponsorship of a series of flat races for men and women amateur riders is to continue this year. The nine-race series begins at Doncaster on March 25 and continues at Nottingham, Thirk, Ayr, Warwick, Newmarket, Wolverhampton and Kempton Park, with the championship final at Baydock on October 2.

Lanzarote made an even more prize-worthy performance in his first race over fences, the Stand Novices Chase at Sandown in January.

There the former Champion hurdler proved too good for Fred Rimell's highly-rated Zarb, who has since franked the form with

- ASCOT
1.30-Midsummer Lad***
2.00-Tree Tangle
2.30-Outpoint
3.00-Otter Way**
King Flame e.w.
3.35-Lanzarote*

ing reputation with a win over the late mare Grangewood Girl, who kept up a strong gallop to beat Royal Relief, from whom she was receiving only 3 lb. in the Blue Circle Cement Chase at the last meeting here.

For those seeking a likely outsider, the underrated King Flame seems to be the each-way answer.

I have seldom seen a more impressive performance by a novice hurdler than that put up by Midsummer Lad in beating Bluntery by 20 lengths at Sandown recently.

I take him to cause a surprise by bringing John Cherry's unbeaten record over the minor openers, the Datchet Novices Hurdles.

SALEROOM

BY ANTONY THORNCROFT

Eight lead soldiers set record

THE LONDON salerooms were kept busy yesterday with a mass of fairly routine auctions. Perhaps the most interesting price was at Phillips, where a set of lead soldiers established an auction record of £300.

The sale of lead soldiers and models totalled £15,230, with another good price of £260 for a 1920 German tinplate model of an army ambulance.

The other Phillips auctions, of furniture and books, were more routine, with best prices of £1,200 for a 15th-century Dutch mahogany cylinder bureau and the same for a set of 11 Regency rosewood dining chairs, and a highest of £1,300 among the books for a 1795 atlas by Cassini.



Stubs' "Haymakers," sold for £5,500.

Robert Rowland made in 1718; and £3,800 for the actions, stocks and fore-ends of a pair of Purdey sporting guns.

The second day of the book sale added £89,335 for a two-day total of £135,656, with less than 2 per cent brought in. The best price of the day, £18,000, was paid at Christie's for six volumes of lithographs produced by David Roberts after a tour of the Holy Land and Egypt, and first published in 1842-49. The buyer was Spink, and the price almost doubled the estimate. The auction realised

An engraving by Stubs, "Haymakers," sold for £5,500 to Fritz-Denneville, and another Stubs, "Labourers," to Mendez for £2,400. A set of over 1,000 prints of Phytanoxa Iconography by Weinmann sold for £3,800, while Thomas Shotter Boys' "London As It Is" sold for £2,100.

In the afternoon session six lithographs by Nevinson on "Building Aircraft" from the series "The Great War: Britain's Effort and Ideals," sold for £1,650.

There was a routine auction of Japanese ceramics, lacquer and metalwork which totalled £40,473.

GARDENS TO-DAY

Horizons reduced by price of fuel

BY ROBIN LANE FOX

ENTERING a hot private greenhouse recently, in which the summer's geraniums were being raised from seed, I was reminded of all that the past three years' fuel prices have removed from a gardener's horizons. There were even a Paradise (Strelitzia), whose seed is worth buying from Thompson and Morgan of Ipswich if you chop its tough coating before you sow it and then keep it up to a temperature of 70°F.

There were sensitive plants, Mimosa pudica, usually available from Traders of Truro in Cornwall and happy wherever they can be kept well clear of frost: nurseries sell them as a curiosity with which to amuse the children, but you do not have to be childish in order to enjoy their way of curling their leaves and young shoots whenever you touch them lightly. There was also a Castleya, most opulent of all orchids.

Why worry with a hot-house, you may wonder, when houses have airing cupboards and a warm kitchen? If you sow these tropical seeds in boxes and cover them over with polythene bags, you can indeed leave them in a dark cupboard and expect a certain success in coaxing them into a pair of young leaves.

Once the yellowish leaves appear, you must bring them into the light, and here you might well opt for the kitchen. There may be gardeners, perhaps, who do keep greenery alive beside a stove; when I see it, I suspect it has been bought within the past week or so and has no longer to live.

The wild changes in temperature and the steams and vapours in the air are deadly for most plants. At night the kitchen freezes, so you cannot persuade yourself that it is as good as an old-fashioned conservatory.

What of the new limits on a greenhouse? They cannot cramp a gardener with imagination. Glass keeps off the rain; there is plenty of peat and remember to be one of them. Half a dozen plants which I am convinced that it is wise to

cannot be grown outdoors, you find a half-shaded corner of cold house or frame and to some rotted manure in the pots. It is worth feeding with liquid manure, too, as buds appear. The flowers, about the size of a daisy's, are rounded and often strip prettily in shades of pink, white and orange. The best selection offered by Ingwersens is Gravelotte, East Grinstead, Sussex; new hybrids are appearing.

I would begin with the selected varieties of Lewisia Coleby which are sold as the Sun Strain. They range through pinks, reds, yellows and oranges, and have not let me down in a season. It is unrealistic to expect a true named variety and these various colours, bred between one another freely. Only those hybrids which are propagated from cuttings and root-cuttings will keep their identity. "George Hanley's," particularly good here, as farracotta flowers last from spring into early summer.

Rich soil
Their cause has been done much good by the fine exhibits at the spring RHS flower shows: here, Lewisias are grown in shallow pans filled with a rich acid compost and sharp stone chippings and will flourish on the rosettes of one plant. They are quite hardy, but the dampness of winter spoils them and reduces them to a size which hardly catches the eye.

It would be worth putting part of a run of greenhouse staging down to a bed of Lewisias which would root in a reasonable depth of rich soil. But if you are patient and choose a few for pots, you can also bring them into a cool room indoors when they flower. Their stems are alive beside a stove; when I see it, I suspect it has been bought within the past week or so and has no longer to live.

Can you grow Lewisias where there is lime in the soil and the greenhouse? They cannot cramp a gardener with imagination. Glass keeps off the rain; there is plenty of peat and remember to be one of them. Half a dozen plants which I am convinced that it is wise to

Hate wet
Ingwersens offer their Late Orange which describes itself accurately: the pinkish Trevozia is a distinctive colour, too, and bears its flowers longish stems. I would extend the many variations of the set strain before looking further. There is one essential restriction to which all Lewisias respond: they hate to be wet outside during the winter and they also to be watered at all freely in glass between October and March. This suits the well-watered winter watering is a cold tiresome business. The roses of their leaves are presumed suited to the storage of water in the summer, while I imagine that winter snows keep plants covered warmly in the Rockies. There are not many blessings in these days of expensive heating, but bright mountain plants for unheated greenhouses seem to be one of them. Half a dozen for £2 go to a long way in the years.

Deathly

Once the yellowish leaves appear, you must bring them into the light, and here you might well opt for the kitchen. There may be gardeners, perhaps, who do keep greenery alive beside a stove; when I see it, I suspect it has been bought within the past week or so and has no longer to live.

What of the new limits on a greenhouse? They cannot cramp a gardener with imagination. Glass keeps off the rain; there is plenty of peat and remember to be one of them. Half a dozen plants which I am convinced that it is wise to

TV/Radio

- 7.05 a.m. Open University (UHF only). 9.15 For Schools, Colleges. 10.45 You and Me. 11.00 For Schools, Colleges. 12.45 p.m. News. 1.00 Pebble Mill. 1.45 Heads and Tails. 2.01 For Schools, Colleges. 3.53 Regional News (except London). 3.55 Play School. 4.20 The Wombles. 4.35 Jackanory. 4.40 The Great Grape Show. 5.05 John Craven's Newsround. 5.10 The Phoenix and the Carpet. 5.40 News. 5.55 Nationwide (London and South-East only). 6.20 Nationwide.

F.T. CROSSWORD PUZZLE No. 3307

A crossword puzzle grid with numbers in the starting squares. The grid is 25 squares wide and 20 squares high.

- ACROSS
1 Minister snoops by road junction (6)
4 End of ground excavated (4, 2)
8 Master opponent in open-air production of Hamlet (7)
9 Officer departed to order papers (7)
11 Wash lightly with soap—the lighter the better at tea-time (6, 4)
12 Spley item for office staff (4)
13 Period with a certain charm (5)
14 Jumper supplied with front pocket (5)
15 Originator of Alpine trunk route (5)
18 With which to achieve end of money (5)
20 Is two a flower? (4)
21 Handle correspondence and sign by the way (6, 4)
23 Stick around on railway for making (7)
24 Embrace oriental wife (7)
25 Mess left by a lot of cuts (6)
26 How's that for attraction? (6)
DOWN
1 Vote wholeheartedly for stout (5)
2 One member elected upset for example by strike (7)
3 Severely criticise driver for organising savings (5, 4)
5 Sailor takes poem home (5)
6 Difficulty of having to cover up novel heroine (7)
7 Explain how to vote (3, 6)
10 Sailor goes by jet because it's smoother (4, 5)
13 From lightning gives leading players a terrible time (4, 5)
15 Quite a few eat at night when dawn is high (7, 2)
17 No Scots perfume is coming to life (7)
19 Confirm a piano test (7)
21 Coin found in place of beastly shaker (5)
22 Ropy material for making sails (5)

SOLUTION TO PUZZLE No. 3306
MORMWOOD MORMWOOD
A O T M N U U
W T W R L L O D S I O N
L W M S G E C A M N A
P S V E N T E
R A T R O C C A P E
C U R A T E S T I C K E R
U L T R A J O R N A L
M A I S E D A S S I M I L A T E
I N T E R G A T I O N A L
D I G E S T R E A R C H E R S

- 11.15 SportsScene. 11.55 News and Weather for Scotland.
12.00 News. 10.33-10.45 a.m. For Schools: Ulster in Focus. 5.53-5.55 p.m. Northern Ireland News. 5.55-6.20 Scene Around Six. 11.55 News and Weather for Northern Ireland.
12.05 Sportsnight. 11.15 To-night. 11.55 Weather/Regional News. All Regions as BBC 1 except at the following times: Wales—2.18-2.38 p.m. Ysgolion. Ffenesfri. 4.40 Crystal Tipps and Ailistair. 4.45-5.05 Lion a Llywd. 5.55-6.20 Wales To-day. 5.55 Heddys. 7.30 Pobol y Cwm. 7.40 9.00 Touch and Go, starring Jack Hawkins. 11.55 News and Weather for Wales.
Scotland—10.25-10.43 a.m. 2.18-2.38 p.m. and 5.40-5.50 For Schools. 5.55-6.20 Reporting Scotland. 10.25-10.43 a.m. Open University.
10.33 Nal Zindagi Naya Jeevan. 11.00 News.
1.45 p.m. Racing from Ascot. 5.40 News on University. 5.40 News on 2 Headlines. 5.45 News on Union Studies.
7.30 Newsday.
8.10 Pro-Celebrity Golf.
9.00 Party Political Broadcast on behalf of the Conservative Party.
9.10 One Man and His Dog. 9.40 The Velvet Glove.
10.58 Arena: Cinema: "Network" with Peter Finch—discussion: Cavalcanti talks about his career.
11.20 Late News on 2.
11.40 Close-down: Ronald Pickup reads "The Last Mystery" by Ian Stalworth.

- LONDON
9.30 a.m. Schools Programmes.
12.00 The adventures of Rupert Bear. 12.10 p.m. Rainbow. 12.20 The Flintstones. 1.00 News plus FT index. 1.20 Today's Post. 1.30 Crown Court. 2.00 Good Afternoon with Wally. 2.30 M.D. 3.20 Rooms. 3.50 Who's Baby? 4.20 How. 4.45 Horse in the House. 5.15 London Scene. 5.20 News.
5.45 News.
6.00 Today.
6.25 Crossroads.
7.00 This Is Your Life.
7.30 News.
8.00 Wednesday Adventure Film: "Genhish Khan," starring Omar Sharif and James Mason.
10.00 Party Political Broadcast on behalf of the Conservative Party.
10.10 News.
10.40 The Wednesday Special.
11.25 Pathfinders.
All ITV Regions as London except at the following times:—
ANGLIA
12.30 p.m. Whose Baby? 1.25 Anglia News. 2.00 Houseparty. 3.25 Cash and Company. 3.50 Mr. and Mrs. 5.15 University Challenge. 6.00 About Anglia. 6.30 The Wednesday Film: "The Double Man" starring Yul Brynner and Britt Ekland. 11.35 Music in Camera. 12.05 a.m. The Big Question.
ATV MIDLANDS
12.30 p.m. Whose Baby? 1.20 ATV Newsdesk. 1.30 Mr. and Mrs. 5.15 The Wednesday Film: "The Double Man" starring Yul Brynner and Britt Ekland. 11.35 The Playwright: Cecil Taylor.
BORDER
12.30 p.m. Whose Baby? 1.20 Border News. 2.00 Houseparty. 2.25 Bonny. 3.20 The Mr. and Mrs. Moore Show. 3.50 Mr. and Mrs. 5.15 University Challenge. 6.00 About Anglia. 6.30 The Wednesday Film: "The Double Man" starring Yul Brynner and Britt Ekland. 11.35 Music in Camera. 12.05 a.m. The Big Question.
CHANNEL
11.20 p.m. Channel Late News and What's On Where. 2.25 The Champions. 3.20 Mr. and Mrs. 5.15 Lank. 6.00 Channel News. 6.30 Wednesday Feature Film: "The Morning After" starring Yul Brynner and Britt Ekland. 11.35 The Playwright: Cecil Taylor.
GRAMPIAN
9.25 a.m. Five Times. 12.30 p.m. Despy's Trail. 1.30 Gramscian News. 2.00 The Mr. and Mrs. Moore Show. The Flintstones. 5.00 Pellic Newsroom. 6.00 Gramscian Today. 6.30 The Midweek Film: "The Double Man" starring Yul Brynner and Britt Ekland. 10.40 Focus With Barry Scowen. 11.40 in Focus.
GRANADA
12.30 p.m. Whose Baby? 1.20 This Is Your Life. 2.25 Tandara. 3.30 Mr. and Mrs. 5.15 University Challenge. 6.00 Granada Today. 6.30 The Wednesday Film: "The Double Man" starring Yul Brynner and Britt Ekland. 11.35 The Playwright: Cecil Taylor.
ITV
12.30 p.m. Whose Baby? 1.20 Report West Headlines. 1.25 Report Wales Head-

- lines. 2.00 Houseparty. 2.25 Randall and Bonford (Action). 3.25 Jason King. 3.50 Mr. and Mrs. 5.15 University Challenge. 6.00 Report West. 6.30 The Wednesday Film: "The Long Day" starring Yul Brynner and Trevor Howard. 11.35 Collaborate.
SCOTTISH
12.30 p.m. Whose Baby? 1.20 Road and Report (Action). 3.25 Mr. and Mrs. 5.15 University Challenge. 6.00 Report West. 6.30 The Wednesday Film: "The Long Day" starring Yul Brynner and Trevor Howard. 11.35 Collaborate.
SOUTHERN
12.30 p.m. Whose Baby? 1.20 Southern News. 2.00 Houseparty. 2.25 Jason King. 3.50 Mr. and Mrs. 5.15 University Challenge. 6.00 Report West. 6.30 The Wednesday Film: "The Long Day" starring Yul Brynner and Trevor Howard. 11.35 Collaborate.
TYNE TEES
12.30 p.m. Starting Point. 12.30 p.m. Whose Baby? 1.20 North East News and Lookaround. 1.30 Women Only. 2.05 The Comedy Hour. 3.30 Mr. and Mrs. 5.15 The Wednesday Film: "The Double Man" starring Yul Brynner and Britt Ekland. 11.35 The Playwright: Cecil Taylor.
ULSTER
12.30 p.m. Whose Baby? 1.20 Luncheon. 2.25 The Wednesday Film: "The Double Man" starring Yul Brynner and Britt Ekland. 11.35 The Playwright: Cecil Taylor.
WESTWARD
12.30 p.m. News. 1.20 Birthdays. 12.30 Whose Baby? 1.20 Westward News Headlines. 2.25 The Champions. 3.20 Mr. and Mrs. 5.15 University Challenge. 6.00 Westward Today. 6.30 The Wednesday Film: "The Double Man" starring Yul Brynner and Britt Ekland. 11.35 The Playwright: Cecil Taylor.
YORKSHIRE
12.30 p.m. Whose Baby? 1.20 Calendar. 2.25 The Wednesday Film: "The Double Man" starring Yul Brynner and Britt Ekland. 11.35 The Playwright: Cecil Taylor.
Regional News. 5.55 Weather: programme. 6.00 News. 6.35 Jan A. Milne. 7.00 News. 7.20 News. 7.25 The World in Focus. 7.25 Party Political Broadcast on behalf of the Conservative Party. 7.30 Midweek Theatre. 8.15 Eddon At Large. 8.30 Scene. 9.30 Kaleidoscope. 9.50 Weather. 10.00 The World Tonight. 10.40 Today in Sport: report on the General Sport of the Commonwealth of England. 10.45 A Book At Bedtime. 11.00 The Evening News Tonight. 11.35 Today in Parliament. 11.35 Late Night News. For Schools (VHF only) 4.05 a.m.-12.00 and 2.00-3.00 p.m.

- BBC Radio London
206m and 84.9 VHF
6.45 a.m. As Radio 2. 6.30 Today with Rush Hour. 9.00 Personal Choice. 9.20 Richard Vaughan with London Live. 10.30 News. 11.00 News. 11.30 News with Today. 12.05 p.m. Call in, including 12.05 London News Desk. 2.00 Paul Owens with 206 Showcases. 4.05 News. 4.30 News. 5.00 News. 5.30 News. 6.00 News. 6.30 News. 7.00 News. 7.30 News. 8.00 News. 8.30 News. 9.00 News. 9.30 News. 10.00 News. 10.30 News. 11.00 News. 11.30 News. 12.00 News. 12.30 News. 1.00 News. 1.30 News. 2.00 News. 2.30 News. 3.00 News. 3.30 News. 4.00 News. 4.30 News. 5.00 News. 5.30 News. 6.00 News. 6.30 News. 7.00 News. 7.30 News. 8.00 News. 8.30 News. 9.00 News. 9.30 News. 10.00 News. 10.30 News. 11.00 News. 11.30 News. 12.00 News. 12.30 News. 1.00 News. 1.30 News. 2.00 News. 2.30 News. 3.00 News. 3.30 News. 4.00 News. 4.30 News. 5.00 News. 5.30 News. 6.00 News. 6.30 News. 7.00 News. 7.30 News. 8.00 News. 8.30 News. 9.00 News. 9.30 News. 10.00 News. 10.30 News. 11.00 News. 11.30 News. 12.00 News. 12.30 News. 1.00 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EUROPEAN NEWS

Some important facts about the fastest growing region of the German Federal Republic—the South.

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Portugal to apply formally this year to join EEC

By REGINALD DALE, EUROPEAN EDITOR

DR. MARIO SOARES, the Portuguese Prime Minister, yesterday spelled out more clearly than ever before the steps by which he plans to achieve the full EEC membership on which his Socialist Government has staked its future. Speaking in London at the end of the first stage of a tour of EEC capitals, Dr. Soares for the first time officially confirmed that he would lodge a formal application for Portugal to enter the Common Market after he completes his tour next month. The next step would be for the Nine to agree to open negotiations this year, or in early 1978 at the latest. The political decision to admit Portugal must thus be taken in the course of the next year, he said. Looking further ahead, Dr. Soares said he was convinced that Portugal would be ready for full integration into the Community by 1985. He was less clear about the precise target date for entry, saying only that he hoped his country would be accepted as a full member "much before 1985."

Dr. Soares said that while the main benefits to the community of Portuguese membership would be political, there would also be economic advantages. He pointed to the wider market, the fisheries and mineral resources and the scope for capital investment, which his country would offer. Portugal would also serve as a bridge between the community and the former Portuguese colonies in Africa, as well as Brazil, he added. He had not been surprised by the "total support" for Portuguese membership which had been expressed by Mr. James Callaghan, the Prime Minister, during his London talks. He hoped that Britain would use its "prestige and authority in the community" to further the Portuguese bid. Dr. Soares said that while the amount varying according to each currency's movement. Following EEC Commission complaints about the exploitation of this loophole, two French companies sought an interpretation from the Court, and Mr. Warner's opinion today is the first stage in this process. If the Court upholds Mr. Warner's opinion, the implication is that the sugar companies will have their fines recalculated in their national currencies, and will then have to pay the difference between that and what they have already paid in lire.

EEC Court advised on fines

By DAVID BUCHAN

FINES IMPOSED by the European Court of Justice should reflect current money values, even though they are officially set in a European unit of account that was established before exchange rates generally started to float. This was the thrust of an opinion delivered today by the Advocate General, Mr. Jean-Pierre Warner, before the Luxembourg court following the case in which nine European sugar companies were fined in December 1975, for illegal market practices. The Advocate General, whose opinion is likely to be endorsed by the Court sitting before Easter, said that "the sugar companies must pay in their national currencies."

France will tighten S. Africa arms policy

By Robert Mauthner

PARIS, Feb. 15.

FRANCE WILL re-enforce its embargo on arms sales to South Africa, though naval equipment will still be excluded from the ban, French President Valéry Giscard d'Estaing announced last night at the end of an official visit in Bamako, the Mali capital. The French embargo on military aircraft and land armament sales to South Africa was first proclaimed officially during Giscard's visit to Zaïre in August 1975. But he made clear at the time that orders already placed would be honoured. Last night, however, President Giscard d'Estaing emphasised that not only would no new air and land military equipment be sold to South Africa, but that the French authorities had taken special measures to prevent any deliveries from slipping through the official net. It is understood in Paris that the re-enforcement of the embargo will also put a stop to all supplies of spare parts for military equipment such as Mirage combat aircraft, helicopters, tactical missiles and transport aircraft already ordered by France to South Africa. The measures, however, will probably have less practical effect than might appear at first sight. The Mirage and some other equipment have been manufactured under licence in South Africa for some time, and the South Africans are known to have both the know-how and industrial capacity to manufacture most of the military equipment they need. At the same time, France, which has already supplied S. Africa with three Daphne class submarines and has received further orders for at least two 12,000-ton Agosta class submarines worth about \$33m, which are due to be delivered at the end of next year, will continue to sell naval equipment to South Africa. The official French justification for such a dual stance is that naval equipment can be used for external defence only and can not be employed to put down local insurrections. France's political motives are clear: it has been much criticised recently by independent African countries for pursuing an ambiguous policy. President Giscard d'Estaing may have gone some way to dispel some of the hostility, but it can hardly be expected that his African policy continues to maintain a balance between France's commercial and political interests.

Irish torture and police issues take new turns in Dublin

By GILES MERRITT

DUBLIN, Feb. 15.

THE TWIN torture questions when interrogating IRA suspects which have been dogging Anglo-Irish relations of late, today took a new turn. The Dublin Government confirmed reports from Strasbourg that the European Human Rights Court has decided to pursue the controversial torture case brought against Ireland over the security forces' interrogation methods in Ulster in 1971. At the same time, the Irish cabinet is understood to be on the point of announcing the formation of an independent complaints Board to study the recent spate of allegations of Garda police brutality triggered by a series of revelations in Ireland's leading daily newspaper. According to Dublin officials, the Human Rights Court which heard torture charges by Ireland against Britain last week on Friday that it would be proceeding with the case on all five main counts. The next session of the Strasbourg court is expected to be from April 19-22. But the Irish Government has been embarrassed by the coincidence of allegations that the Republic's plainclothes detectives—known as the "heavy gang"—employ similar physical and psychological techniques as a bargaining counter.

Yugoslavia hits at West over dissident campaign

By GILES MERRITT

BELGRADE, Feb. 15.

YUGOSLAVIA today accused the West of "poisoning the atmosphere" for the forthcoming review of the 1975 Helsinki human rights Conference on European Security and Co-operation by dwelling on the issue of human rights. The Soviet Union and Czechoslovakia have levelled similar charges against the West in a clear attempt to blame other Europe, the Communist Party newspaper Borba said in a commentary that Yugoslavia rejected any attempts at the imposition of its population of the Western concept of liberty. If outsiders were unwilling to accept Yugoslavia's brand of independent Communism, Borba rights violations. Professor Sakharov said the arrest of three leading dissidents to this month was part of an effort to stifle the movement's voice before the follow-up conference in Belgrade in June on the Helsinki agreement. Agents of being directed from UPI.

Paris election candidates named by Left

By David Curry

PARIS, Feb. 15.

THE THREE parties forming the French Union of the Left have agreed on the names of candidates to carry their joint colours into the Paris municipal election next month. They will support 44 Communist candidates, 43 Socialists, nine Radicals of the Left and a ne people of left-wing views but no formal affiliation to contest the 109 Paris seats. More narrowly, in the nine arrondissements where the Left is given a chance of winning, it will field 27 Communists, 21 Socialists, five Radicals of the Left and four unaffiliated left-wingers. The Communists have won their battle to head the lists in all five of the arrondissements where the Left won last time round, but Socialists will lead the battle in three of the other four constituencies which the Left could win. The Communists had accused the Socialists of trying to encroach on traditional areas of Communist strength on the basis of their much improved electoral performance over the past few years and relative decline of the Communist vote. Meanwhile there is speculation that M. Chirac may, if he demonstrates his political power by bringing his lists in well ahead of M. Doreigne at the first round of voting, stand down in favour of a compromise candidate.

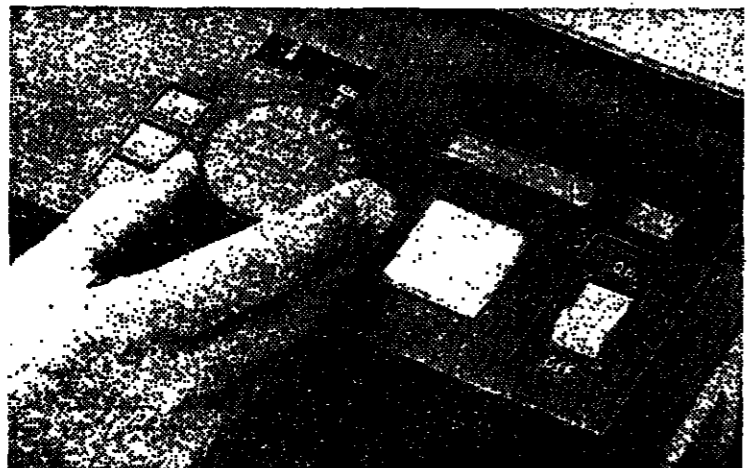
Norway-Soviet fishing row

By William Dullforce

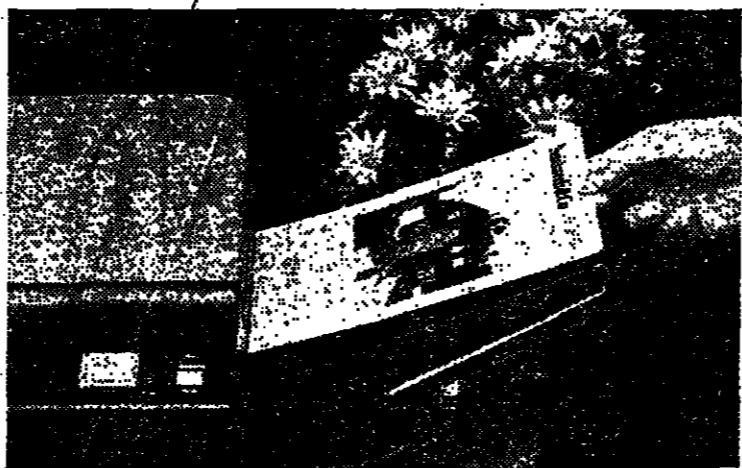
BRITISH fishermen may be indirectly affected by the cooling in diplomatic relations between Norway and the Soviet Union. Although Mr. Kunt Frydenlund, the Norwegian Foreign Minister, said here today that he had received no indication that the Soviet Union was breaking off the talks between the two countries on the Barents Sea fishing, the Russians did not resume the talks at the end of January as scheduled. A halt to these talks could delay Norway's negotiations with the EEC on reciprocal fishing rights. A Norwegian newspaper reported today that the Soviet Union had broken off the talks following the expulsion by Norway of six Soviet citizens, including four diplomats and the "Tass" correspondent, charged with illegal activities.

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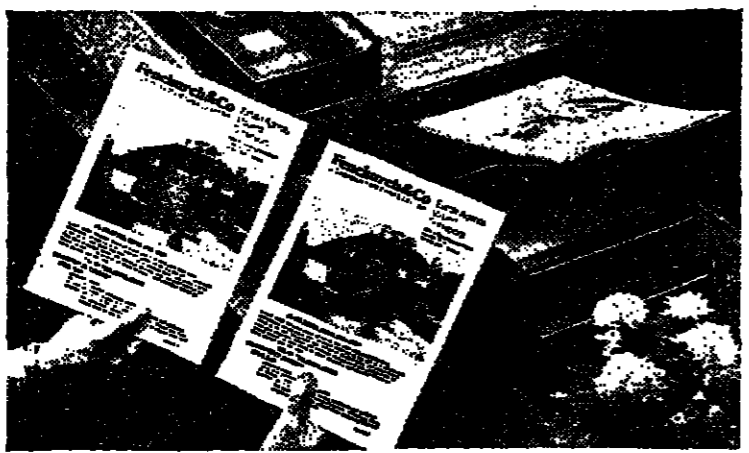
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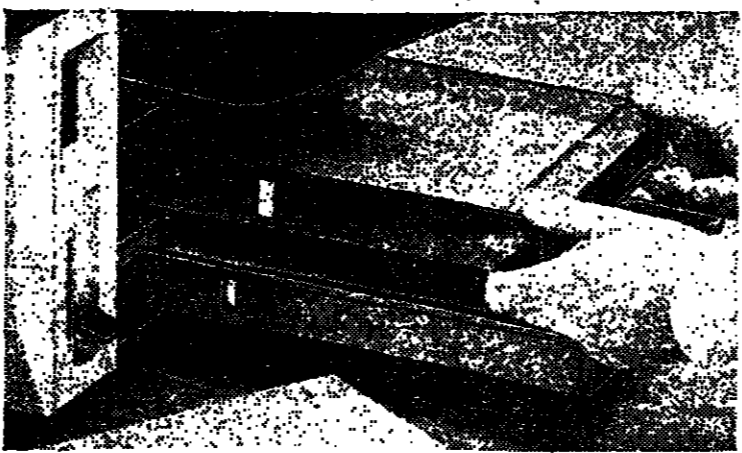
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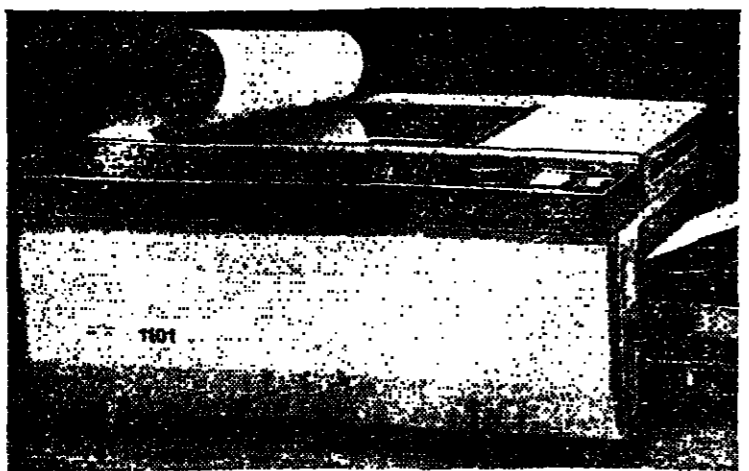
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Advertisement for Charities Aid Foundation (CAF) with the heading 'To CHARITIES AID FOUNDATION'. It provides contact information for the foundation and lists various services offered, such as providing booklets on giving to charity, trust facilities, and business side of giving to charity. It includes a form for requesting more information.

معلومات العمل

EUROPEAN NEWS

Waldheim hopeful on N-test ban accord

By David Gilt

GENEVA, Feb. 15.

IMPROVED prospects for the conclusion of a comprehensive nuclear test ban were referred to here at the opening session, after a five-month recess, of the Geneva Disarmament Conference.

In a special message to the 31-nation gathering, Mr. Kurt Waldheim, the Secretary-General of the United Nations, noted that both the Soviet Union and the United States recently had indicated a willingness to overcome the long-standing impasse with regard to on-site inspections. There seemed, he said, "to be now a greater readiness to reach an accord in this area which could have a major positive impact on the international situation."

The positions of the two super-powers were less explicit. The U.S. delegate, Mr. Leon Sless, acting director of the U.S. Arms Control and Disarmament Agency, noted that his Government was currently re-examining numerous arms control and disarmament issues, including the question of a comprehensive test ban which would finally outlaw underground testing.

The complete and effective prohibition of chemical weapons is also considered a high priority task here and the U.S. has undertaken to comment on specific aspects of the draft convention, presented by Britain last August, on the prohibition of the development, production and stockpiling of chemical weapons and on their destruction. It was noted that bilateral consultations between the U.S. and the Soviet Union were continuing in an effort to reach a common approach on this question.

Reflecting the new approach of the Carter administration, it is expected that there will be greater emphasis in the current series of disarmament meetings on a reduction in international traffic in conventional weapons. According to the United Nations, the accumulation of arms "far beyond the needs of legitimate defence" now absorbs some \$350bn. annually. A significant proportion of this global figure is now absorbed, Mr. Waldheim noted, in conventional weapons in areas of the world where, until recently, the arms race was relatively unknown.

Spain police believe main terrorist group is broken

BY ROGER MATTHEWS

MADRID, Feb. 15.

APART FROM five men still being hunted, the Spanish police now believe they have broken up one of the country's main terrorist groups. In an extensive report made public late last night, they revealed that 38 people have been arrested for their part in a series of bombings, police killings and kidnappings which culminated last Friday in the rescue of two top officials who were being held hostage.

The entire responsibility for these events is placed on the Reconstituted Communist Party, an extreme Left-wing faction, and its military arm, Grapo. Besides the arrests, police have seized nearly 340 kilos of explosives together with a quantity of arms and propaganda.

Sen. Roberto Conesa, the police chief who was brought in to head a special anti-terrorist squad, said at a Press conference that while members of Grapo might behave like wild animals in the streets they became as docile as "little lambs" once in custody. Under questioning, arrested Grapo members had produced the information which had enabled police to rescue Sen. Antonio Oriol, President of the

Council of State, and Lt-Gen. Villaseca, President of the Supreme Council of Military Justice, without the need to employ weapons.

SPANISH authorities have formally legalised the status of Communist Party chief Santiago Carrillo by issuing him with an identity card and a passport, his family said yesterday. UPI reports from Madrid. Sr. Carrillo, 62, had been barred from Spain since the end of the civil war in 1939. Last year, he vainly applied for a passport to return home. He then travelled clandestinely to Madrid where he was arrested in December, charged with leading an illegal party and released on bail one week later.

The authorities also stressed that there was no other organisation behind the Reconstituted Communist Party or Grapo. The terrorists might have had contacts with foreign groups, but it was learned that areas of the police did not believe so. However, more comprehensive investigations were needed to

ascertain the full extent of Grapo's activities.

Sen. Conesa declined to comment on the pace of police investigations into the murder of a student and five Communist Party lawyers three weeks ago in Madrid, but he hinted that progress was being made.

The length, detail and confidence of the police report on Grapo was obviously designed to calm fears about the apparent threat posed by terrorism to the Government's liberalisation programme. It was also spurred by the scepticism, not yet wholly dissipated, of the original police version immediately after the two kidnap hostages had been freed.

Meanwhile, Prime Minister Adolfo Suarez and an opposition negotiating team seem close to a compromise agreement on the terms of the electoral law which will regulate the general elections due to be held before the end of June. After a meeting between the two sides last night, it was learned that areas of the police did not believe so. However, more comprehensive investigations were needed to

Doctors strike in Saxony

BY ADRIAN DICKS

BONN, Feb. 15.

SEVERAL HUNDRED doctors and dentists went on strike in Lower Saxony today, the second such militant protest in a week against the West German Government's attempts to control the soaring health costs that have contributed to the threatened bankruptcy of the entire social security system.

According both to the doctors' federation in the mainly rural Oldenburg area, and to independent reports, the federation's call for doctors and dentists to close their practices for the day was widely followed. Some visits to seriously-ill patients, however, were carried out and skeleton emergency surgeries organised by the Red Cross.

The Government now appears to face a united front of doctors, dentists, pharmacists and drug companies against its Bill to control the increase in health costs. Neither the doctors' organisations nor the drug industry have denied a report in Die Welt this morning that pharmaceutical manufacturers had contributed generously to a DM20m. fighting

fund established by the doctors to publicise their complaints.

With the aid of posters, pamphlets and other well-distributed publicity material, the doctors are charging the Government with trying to "socialise" medicine in a manner that would, they claim, harm the confidential doctor-patient relationship, destroy patients' freedom of choice and affect standards of treatment.

They have also furiously attacked the Minister of Labour, Herr Herbert Ehrenberg, the author both of the Bill and of a parallel measure aimed at putting the old age pension scheme back into long-term financial balance. On the eve of a Cabinet meeting which will consider the less hysterical objections to both Bills, the Free Democrats, junior members of the coalition Government, were holding an emergency meeting this afternoon with the reported aim of smoothing relations between Herr Ehrenberg and the doctors' leaders. The FDP, though it has publicly condemned the protest actions by doctors, is not likely to forget that many

of them, like other members of

the liberal professions, are among its supporters. Meanwhile, there is little sign that the doctors enjoy much public support. Many West Germans appear to be deeply shocked that they should strike, especially while protesting so noisily about the threat of socialism. Herr Ehrenberg undoubtedly struck a chord of sympathy when he accused them of trying to "blackmail Parliament."

The doctors are also having trouble persuading public opinion that their motives are not purely mercenary. Both they and the pharmaceutical industry have done very well out of a system—essentially State-financed—that has increased what it pays them more than sevenfold since 1960. The doctors' leaders expressed pain to-day, and said they feared public resentment, when Herr Ehrenberg said their average earnings were DM170,000-180,000 after deducting professional expenses. The true figure should be, they claimed, DM40,000 less, though that would still leave doctors among the very highest earners.

EEC fish stock protection details

BRUSSELS, Feb. 15.

THE FOLLOWING are the details of the fishing conservation measures adopted by Agriculture and Fisheries Ministers of the EEC in Brussels yesterday.

● A total ban on herring fishing in the North Sea from February 28 to April 30.

● Decision on the remainder of the year to be made by the Council in the light of scientific evidence on the state of herring stocks.

● A total ban on Celtic Sea herring fishing from March 1 to the end of the year.

● Commission to study possible bans on other herring fisheries off the Irish coast.

● Closure of an area to the north and east of Scotland to industrial fishing for fish meal (the so-called Norway punt box), initially from February 28 to April 30. The size of the box to be closed to industrial fishing from August 1 to be determined by the Council in the light of scientific information.

This was a key element in the compromise, reconciling the Danish demand for a smaller box, to allow more industrial fishing, and British insistence that it had already compromised far enough. British officials are confident that scientific evidence will back their claim that the present size box, if not a larger one, is essential to safeguard whitefish stocks.

● Industrial fishing is to be subject also to a reduction in the maximum whitefish by-catch tolerance to 20 per cent. (from 25 per cent.) from April 1. Commission to put forward subsequent by-catch proposals (the U.K. originally pressed for a 10 per cent. tolerance, and only 5 per cent. of immature whitefish) before the end of May.

● Strict limits on the activities of factory ships outside the Community's 200-mile zone. The Commission is to judge whether the Irish unilateral ban on larger vessels is non-discriminatory. But French sources suggested here to-day that only about 100 out of some 400 mainly Breton vessels fishing off Ireland would be affected. Welsh fishing boats working out of Milford Haven should also be generally exempt. The Dutch fishing fleet seems likely to be the worst hit.

TURKISH POLITICS

A coalition split all ways

BY METIN MUNIR IN ANKARA

POLITICAL uncertainty and an air of impending crisis prevail in Turkey, the outcome of which is all but impossible to guess. The coalition of Mr. Soylu's Democracy Party and Mr. Demirel's Justice Party are generally regarded as the two main contenders for power. Under these circumstances, it is difficult to believe that Mr. Demirel will be able to settle the Cyprus issue with Greece and independently do each act. The split arises from the structure of the four-party coalition.

The leaders of the three other parties in the Government with Mr. Demirel's Justice Party are Deputy Prime Ministers. Ministries have been divided up among the four and have degenerated into autonomous, partisan parishes. Co-operation and co-ordination among Government agencies is weak and conflict and contradiction has increased to such an extent that the Government has no consensus about any of the major domestic and international problems facing Turkey.

The coalition no longer exists and the Government exists only in appearance, according to Mr. Bulent Ecevit, the main opposition leader and chairman of the biggest party, the social democratic Republican People's Party (RPP).

Although the 23-month-old coalition calls itself the "Nationalist Front" (against Communism) it is in reality a confederation of fronts. When all is said and done, the Government of all to remain in power until the General Election, scheduled for next October, and to campaign from a position of strength. In the meantime, each party is busy using the spoils of authority to strengthen its electoral backing.

The split between Mr. Demirel and Mr. Necmettin Erbakan is particularly visible and important. Mr. Erbakan's Islamic Party (NSP) is the biggest and most indispensable of Mr. Demirel's allies. Although the NSP controls fewer than 50 seats in the 450-member assembly, less than a third of months hence.

One of the coalition leaders, Professor Turhan Feyzioglu of the Republican Reliance Party (RRP), has threatened to pull out Mr. Erbakan, also seem to be willing. It is difficult to be optimistic on this count, however, because in the past Turkish parties have rarely managed to achieve unselfish co-operation.

In any case, nothing dramatic is likely to happen until the beginning of next month when the 1977 financial year budget will have been legislated, something all parties want to see out of the way. After that, in the being done by the former. Ministry is a Feyzioglu parish word of a Western diplomat, forced Mr. Demirel to make an

allocation of about \$1bn. in the budget for heavy industry projects of doubtful feasibility. The weekly news magazine Yanki has calculated over 30 such instances in which Mr. Erbakan generally got what he wanted. Under these circumstances, it is difficult to believe that Mr. Demirel will be able to settle the Cyprus issue with Greece and independently do each act. The split arises from the structure of the four-party coalition.

It is not known to what extent Gen. Ozaydinli spoke for the Army as a whole, or what he is going to do if he is disregarded. However, the fact that he felt strong enough to make this political move (and leak it to the Press personally) is significant and a reminder that when matters get out of control the Army can intervene in politics, as it did in 1960 and 1971. No one should know this better than Mr. Demirel, who was himself ousted by the Army six years ago.

The carnage among Turkish students has added a taint of crisis to the coalition's problems. About 130 students have been killed and over 1,000 wounded in armed clashes between Left and Right wing groups during the Demirel administration. For the second year running, higher education has been seriously disrupted with many faculties closing down more than once.

Matters are getting out of hand, but nobody knows what is likely to happen next. Martial law, military intervention, early elections, continuation of the Nationalist Front—and a new coalition: all are among the possibilities endlessly dissected on the Ankara cocktail circuit.

Probably the most feasible and most sensible is an early election, which would avert whatever crisis may be looming ahead and which might inject new vitality into Turkish democracy. Both Mr. Demirel and Mr. Ecevit, who has been surprisingly ineffectual in his role as main opposition leader, have cautiously said that they may consider an election in June. All other party leaders, excluding Mr. Erbakan, also seem to be willing. It is difficult to be optimistic on this count, however, because in the past Turkish parties have rarely managed to achieve unselfish co-operation.

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peace talks in Cyprus have been revived and talks are underway on the Aegean problems with Greece, the Government is split on them. Mr. Erbakan has strongly nationalist views on these matters, and his power may block any agreement that the more pragmatic Mr. Demirel may hope to reach.

In scores of small and big ways the coalition's performance has aroused discontent, and not in particular visible and important circles alone. Big business and even the Army have shown signs of displeasure. A point has been reached where Mr. Demirel will be able to keep his coalition in one piece until the General Election seven months hence.

Some observers have detected what amounts to blackmail and counter-blackmail, most of it a sinister note in Mr. Feyzioglu's words of the way. After that, in the being done by the former. Ministry is a Feyzioglu parish word of a Western diplomat, forced Mr. Demirel to make an

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has got wind of something from the Army. Recently a confusing signal of discontent has come from the military, or rather from a senior officer. General Irfan Ozaydinli, a four-star Air Force General and member of the Supreme Military Council delivered a letter to the Prime Minister and Council members criticising the coalition. He expressed displeasure with its performance and claimed that it had undermined the State's prestige.

It is not known to what extent Gen. Ozaydinli spoke for the Army as a whole, or what he is going to do if he is disregarded. However, the fact that he felt strong enough to make this political move (and leak it to the Press personally) is significant and a reminder that when matters get out of control the Army can intervene in politics, as it did in 1960 and 1971. No one should know this better than Mr. Demirel, who was himself ousted by the Army six years ago.

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Most people know Optrex cares for eyes. Optrex looks after our health with all sorts of other products, too.

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For more facts, please write: 'Care of Hoechst', Salisbury Road, Hounslow, Middlesex. Or phone 01-570 7712 ext. 3169.

Care of Hoechst

COMMENTS

Arafat appeals for Arab move to restrain Syrians

BY HSIAN HIJAZI

INTENSIVE contacts are under way to avert another large confrontation between Palestinian commandos and Syrian troops...

BEIRUT, Feb. 15.

The Beirut international airport mission of four assisting President Elias Sarkis in the implementation of the Arab-sponsored peace plan for Lebanon...

Vance to meet insecure Rabin

BY TOM ACKERMAN

JERUSALEM, Feb. 15.

MR. CYRUS VANCE, the U.S. Secretary of State, arrived here tonight for the first leg of a Middle East tour to seek the outlines of a commonly acceptable approach for reviving Arab-Israeli peace talks...

Rabin's close Cabinet allies. They were named yesterday in a Tel Aviv court confession as the alleged solicitors of and conduits for cash contributions to the party...

Chinese gold sales suggest payments balance problems

BY COLINA MacDOUGALL

CHINA sold 80 tonnes of gold worth \$350m on the London market in December, British trade figures have revealed. This is believed to be an emergency measure to cope with balance of payments difficulties...

Peking may have got out of the red, but only by stringent reductions of imports. With a new leadership installed, and the effects of the disastrous earthquake at Tangshan last July...

Top leadership in Yunnan province reshuffled

BY COLINA MacDOUGALL

IMPORTANT changes made by Peking in the leadership in Yunnan province indicate that a substantial purge in the provinces may be on the way. The top party and Government posts have gone to two Pingsheng, hitherto head of the adjoining province of Kwangsi...

which the central Government regarded as serious enough to summon the leaders to Peking for a conference. The Gang of Four was earlier reported to have had a "faithful follower" in Yunnan. The displaced provincial head, whose current fate has not been reported...

Moroccan rebels jailed

BY OUR OWN CORRESPONDENT CASABLANCA, Feb. 15.

HEAVY prison sentences were imposed today on 176 Marxist-Leninists convicted of plotting to overthrow the Arab Kingdom of Morocco and set up a republic. After a six-week trial, 44 of the accused were sentenced to life imprisonment...

Oil imports upset Japan trade balance

TOKYO, Feb. 15.

JAPAN had an unfavourable trade balance of \$901m in January because of increased crude oil imports, the Finance Ministry announced today. The Ministry said that exports amounted to \$4,735bn. up by 29.9 per cent over the same month of last year...

POLITICS IN WEST BENGAL Divided Congress machine begins to lose its grasp

BY DAVID HOUSEGO, RECENTLY IN CALCUTTA

MRS. GANDHI'S emergency brought a relief from turbulence to West Bengal. Political killings had reached a peak in 1972 when squads from the Congress youth movement eliminated their rivals in the radical Marxist faction of the Communist Party (the CPM)...

Chicago gangster films. "We will give them a quiet going-over," he says of CPM workers who set foot in what he regards as Congress territory. "Muscle is necessary in politics here."



India's General Election

The Bengal Youth Congress readiness to kill and be killed has been the strength of the state Congress machine. With its support Congress could normally expect to win about 30 of the Parliamentary seats. In eight constituencies, Congress is not

the upper hand, gaining popularity by appealing to Bengali nationalism against interference from Delhi. The mainstream of the party in Bengal is thus providing help to the entire or ten Congress candidates considered. In a number of cases Mr. Ray's support makes clear they will help Janata Party (the anti-Congress grouping) gain a seat to oust either the CPM or the left faction. Such infighting needs victories in Bengal to make up for the losses she has to suffer in the key states of Uttar Pradesh, Bihar, and Orissa.

But splits within the state party make it unlikely that Congress will get more than 20-22 seats. The splits have their origin in personal rivalries, but have been sharpened by Mr. Sanjay Gandhi's intervention in Bengal politics last year. Seeing West Bengal as a potential political base, he unsuccessfully tried to oust Mr. Ray from his post and nominate him with a member of what has come to be known as the "Sanjay" faction in Bengal. Until the resignation of Mr. Jagjivan Ram overturned all Mrs. Gandhi's calculations, it looked as though her son would nominate most of the Congress candidates for Bengal. Since then however Mr. Ray has had

putting up candidates, as part of an electoral pact with the Moscow-oriented Communist Party of India. But splits within the state party make it unlikely that Congress will get more than 20-22 seats. The splits have their origin in personal rivalries, but have been sharpened by Mr. Sanjay Gandhi's intervention in Bengal politics last year.

ENTERTAINMENT GUIDE

Table listing various entertainment venues, shows, and times. Includes sections for Opera & Ballet, Theatres, and Cinemas.

Sri Lanka emergency ended

BY MERVYN DE SILVA

COLOMBO, Feb. 15. SRI LANKA'S six-year-old state of emergency will end tomorrow and, in preparation, all political detainees have been released, a ban on the Sun newspaper group has been lifted and elections for local bodies have been scheduled for next month.

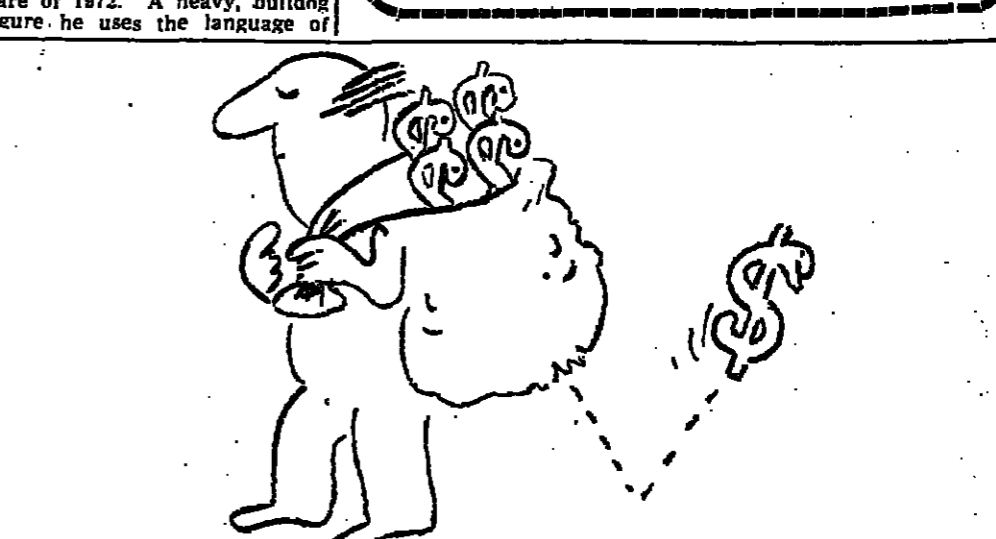
Nigerian mediator in E. Africa

BY JOHN WARBURG

THE NIGERIAN Commissioner for External Affairs, Brig. Joseph Garba, is in East Africa to mediate between Kenya and Tanzania in the bitter dispute which has arisen between them over the collapse of East African Airways (EAA).

Relocate with confidence in Cwmbran

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Australia and New Zealand: are you getting the business, but losing some of the benefits?

ANZ BANK Finance for trade. International Company News: W. German capital market stability. Air France prospects 36/37. Farming and Raw Materials: Threat of California drought 39.

ART GALLERIES

AGNEW GALLERIES, 43 Old Broad St. W. 01-929 5179. 04th Annual WATERCOLOUR EXHIBITION, Feb 28-29, 10.00-1.00, 2.00-6.00.

CLUBS

EYE, 129, Regent Street, 734 0557. A la Carte Club, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200.

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معلومات الاصل

مكتبة الاصل

Steel union presses wage, job security claims in talks

BY STEWART RUSHING

NEW YORK, Feb. 15.

LECTIVE bargaining for a three-year contract in the steel industry is under way, the United Steel Workers on pressing, as expected, for eased wages and lifetime job security.

The basic steel industry talks give the 10 largest steel companies in the U.S. and their 300,000 employees who belong to USW. The negotiations open it is expected to be a year of intensive collective bargaining. Contracts are due for re-negotiation in the construction industry with 18 craft unions covering 823,000 workers, telephone communications with 735,000 workers, bituminous coal with 125,000 workers, railroads with 456,000 workers and retail food with 400,000 workers.

A recent report by the U.S. Government's Council on Wage and Price Stability concludes that in labour negotiations unions will be putting increased emphasis on job and income security.

At a Press conference yesterday, Mr. I. W. Abel, the retiring president of the USW who is leading the union in the talks, said the lifetime security plan sought by the union would mean "a job for life with a decent, respectable income for life."

The union, it seems, is pressing for a guaranteed minimum

number of hours of work each year for steel workers, regardless of fluctuations in the business cycle. The union is likely to press also for improved pension benefits, such as a cut from 30 years to 20 years in the qualifying period for a pension, and perhaps a special provision for early retirement of workers whose plants are to be closed or whose jobs are threatened by technological change.

Important details remain to be settled before April 7 when the contract settlement must go to binding arbitration.

The union has given no indication of what wages it will demand but has criticised as an interference in collective bargaining the Wage and Prices Council report which drew attention to the high wages in the steel industry.

Average earnings in the industry, including overtime and cost-of-living allowances, are around \$8 an hour.

Reuter adds: U.S. steel production for the first six weeks of 1977 was 8.3 per cent below 1976 levels, the Iron and Steel Institute said.

Production up to February 12 totalled 12,638m. tons, down from 13,778m. in the 1976 period. Industry sources said the drop in production this year reflects disruptions caused by severe winter weather, which closed some steel mills, and weaker demand.

Boeings fitted 'with uncertified parts'

By Jurek Martin

WASHINGTON, Feb. 15.

THE FEDERAL Aviation Administration has revealed that uncertified parts have been installed in as many as 100 U.S. airliners manufactured by the Boeing Aircraft Corporation.

The FAA stressed that there was no evidence that the parts were dangerous or substandard, but the fact that they had not received official certification prompted the agency to order the five U.S. airlines flying the Boeing 737s and 737s to remove the parts within 45 days.

It is the second case of such a kind to come to light in the past few days. Over the weekend, allegations were reported that suggested that a much larger quantity of helicopter parts may have been sold around the world with improper certificates.

In the airline case, the FAA said that the parts in question were mostly electronic, used in aircraft flaps, slats, flight instrument accessories and air conditioning units.

The agency said that the parts were made by a small company which sells replacement parts to the aircraft industry. Another company, it went on, had issued service tags representing the parts as having been made and tested by Boeing.

Falklands have 'brilliant' outlook

BY HUGH O'SHAUGHNESSY

THE ECONOMIC future of the Falkland Islands, the isolated British colony in the south-west Atlantic, is "brilliant," their gross national product rose very rapidly last year as a result of booming wool prices, and the unexploited potential in fisheries, alginate and perhaps oil is very large.

This was stated in London yesterday by Mr. W. Hunter Christie, Honorary Secretary of the U.K. Falkland Islands Committee, a body formed to lobby for the opinions of the 1,900 islanders and counter the influence of Argentina, which claims sovereignty over the territory.

His optimistic forecast of the islands' future came in sharp

contrast to the gloomier view of the Foreign and Commonwealth Office, as set out in the Commons earlier this month, and was timed to coincide with the visit to the islands of Mr. Ted Rowlands, the Minister of State at the FCO. Mr. Rowlands is due to fly to the Falklands this morning after an overnight stop in Buenos Aires.

Mr. Christie, who shared a platform with Sir Miles Clifford, a former Governor of the territory, Mr. Ralph Merton, managing director of Alginat Industries, and Mr. Mark Mitchell, secretary of the Falkland Islands Company (a subsidiary of Charrington Gardner Lockert), and Mr. Mike Summers, a young Falklander, expressed great disappointment at the British Government's deci-

sion not to proceed with the expansion of the airfield at Port Stanley.

Any major economic project would have to depend on the provision of an airfield capable of taking medium-range airliners, the FCO. Mr. Rowlands is due to fly to the Falklands this morning after an overnight stop in Buenos Aires.

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Young warning on Africa

BY OUR OWN CORRESPONDENT WASHINGTON, Feb. 16

ANDREW YOUNG, the U.S. ambassador to the United States, said last night that the situation there was potentially more explosive than in other Africa.

Mr. Young said he had telephoned Dr. Henry Kissinger to apologise for his remarks in London over the weekend. Mr. Young had said that Dr. Kissinger had expected to be re-appointed Secretary of State after a Ford victory in the recent presidential elections and then "take it all away from the department by surprise."

THE CARIBBEAN

Protecting the Press

BY DAVID RENWICK, PORT OF SPAIN CORRESPONDENT

AFTER TWO years of planning and discussion, the Caribbean Press Council (CPC) has finally been set up. Based on the British model, the CPC has been established by the Caribbean Broadcasting and Press Association (CBPA), the regional body of media administrators representing 33 newspapers and radio and TV stations as far north as the Bahamas and as far south as Guyana.

The chairman is Mr. Aubrey Aser, a distinguished Caribbean lawyer and former judge of the Trinidad and Tobago Appeal Court, now director of legal education at the Norman Manley Law School, Jamaica.

There are 16 other members, eight representing the public, four working journalists selected from the region and four media managers from the CBPA.

The appearance of the Press Council is an acknowledgement by CBPA members that, in a part of the world served by at least 13 different Governments, there can be no guarantee that public authorities, or even a majority of them, will continue to respect the Western concept of Press freedom that has been inherited as part of the British colonial tradition.

The Council is a reaction to the gradual encroachments that many Governments of the Caribbean Community (Caricom) have been making into the idea of an independent Press.

Many of these encroachments are made in the guise of acting in the public interest, such as heavy bonds that some Caricom states now require newspapers to post before they can exist. These effectively threaten the survival of many of the region's small publishers already operating on economic shoestrings but have been presented as being necessary to make newspapers more "responsible" and to demonstrate financial soundness in advance of any possible suits for libel.

The CBPA is acting on the theory that if there is an agency which can be seen to be willing to put the Press's own house in order and to which members of the public (including Ministers of Government) can turn to have grievances redressed, those Caricom territories contemplating restrictive legislation may be persuaded to think again.

The Press Council is charged with the duty of processing complaints from the public about press conduct and, likewise, complaints from the Press about the conduct of people and organisations (including Governments) towards it. The Council is also meant to help safeguard Press freedom and to maintain, and improve upon, journalistic standards.

The Council's headquarters will be in Jamaica, where both Mr. Fraser and the secretary, Dr. Verold Hosen, acting director of the Institute of Mass Communications, University of the West Indies, live, but it will attempt to sit in different Caricom locations from time to time to deal with the matters brought before it in order to give practical dimension to its regional responsibilities.

The Council begins life at a time when the debate on the role and function of the Press in CARICOM is at its height in many of the territories.

Although the freedoms of freedom have recently been expanded slightly with the decision of Premier Vere Bird's Government in Antigua to repeal the laws introduced by the former Government, which required newspapers to obtain a licence from the cabinet before being published and to deposit a \$10,000 Eastern Caribbean bond (about £1,900) as a surety against libel claims, the resurges on the regional Press remain severe.

Tight Press laws still exist in

Dominica, St. Kitts-Nevis, Grenada and Guyana. The Dominican Seditious and Undesirable Publications Act, 1968, allows the Government to stop the publication of a newspaper for three months, or longer, by a simple administrative order without the need for a State of Emergency to be declared, on the grounds that such prohibition is necessary for the purposes of "defence, public safety, public order, public morality, the protection of the reputations, rights and freedoms of persons and the prevention of the dissemination of false statements and wilful misrepresentations of facts prejudicial to the public interest."

In St. Kitts-Nevis, the Press and Publications Board Act, 1971, makes it an offence to "write, print, publish, circulate, sell or distribute" matter that is deemed to be, among other things, "seditious, blasphemous" or which, in relation to the Government of any member of it is "false, scandalous, and malicious with the intent to bring the Government into hatred, ridicule or disrepute" which is "intended or calculated to malign or injure the reputation of the state, or to bring the name of the state into contempt, hatred or ridicule."

The Grenada Newspaper (Amendment) Act of 1975 forbids anyone to publish or print a newspaper unless they have first deposited \$20,000 EC (about £3,900) in cash, or Government bonds, with the Accountant General "to be drawn upon in order to satisfy any judgment for libel or given against the printer, publisher or proprietor of a newspaper or any writer therein."

The radical Grenada opposition party paper, The Jewel, mouthpiece of the New Jewel Movement of young intellectuals, refused to comply with the provisions of the Act (it simply couldn't find the money) and went underground, from where it has been appearing sporadically since.

A similar situation obtains in Guyana, where a publication called Daycane, the organ of the far-left Working People's Alliance group, is now being produced from clandestine locations because it declined to abide by the provisions of the Publication and Newspapers Act, 1972.

This Act says that no newspaper, or pamphlet, can appear unless the publisher, and two sureties, each post bonds worth \$5,000 (about £900) obliging the publisher to pay every fine imposed upon him "by reason of any conviction for printing or publishing any defamatory libel."

A greater threat to Press freedom in Guyana stems from the actual State ownership of the Press. Guyana is the only Caricom territory in which the Government, as distinct from the party from which the Government may be drawn, actually owns newspapers.

The only morning paper, the Guyana Chronicle, and the only evening paper, The Citizen, are both State-owned. One of the two radio stations, the Guyana Broadcasting Service, is also in the Government's hands.

This situation has caused tensions within the ranks of the CBPA, because the representatives of the Guyana State-owned media sit in that body alongside representatives of private sector newspapers and radio stations and the two parties, not surprisingly, find it difficult to agree on such fundamental issues as the degree of freedom that must be enjoyed by the Press.

At the CBPA's annual general meeting in Tobago last month, the two Guyana representatives actually walked out after the outgoing president, Mr. Ken Gordon of Trinidad, said that he was convinced that freedom of the Press had "long ceased to exist in Guyana."

How could the world's best small interactive computer system be improved?

The System Ten, developed by Singer Business Machines, is acknowledged to be the world's most capable small interactive computer system in its price range.

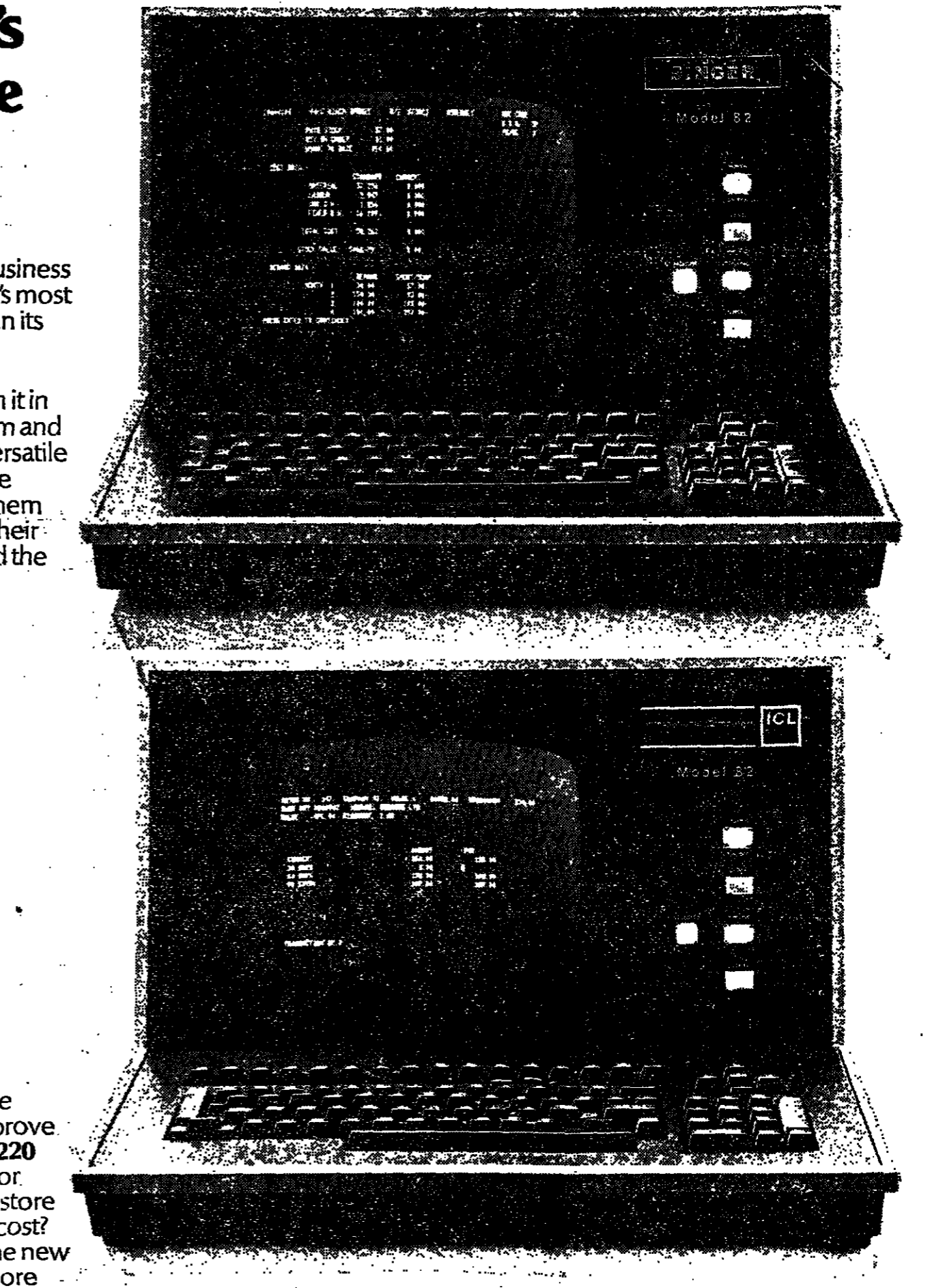
It is so simple that you can converse with it in plain language: a novice can learn to program and operate it in days. Yet it is so powerful and versatile that it allows several people to use it for quite different jobs at the same time: for each of them the computer behaves as if it were entirely their own. Thousands of System Ten users around the world are enjoying these benefits. How to improve on them?

Only by adding improved facilities, more power and the strength of Europe's leading computer company: ICL.

In 1976 ICL acquired the international operation of Singer Business Machines. Since the acquisition, ICL has been working to improve the System Ten. The result? The System Ten 220 Series, which now offers increased processor speed, better disc handling facilities, greater store capacity and improved store flexibility. The cost? ICL has actually reduced the basic price of the new System Ten to under £20,000. This means more work at less cost.

With the full library of ready-written, ready-to-use application packages available in the UK, the System Ten 220 Series can be quickly harnessed to your work - speaking your language - giving you an immediate access to files and fast response to your enquiries. Your staff will find how easily the system can be used to process your orders, print out despatch documentation, monitor your creditors and cash flow, schedule your production and re-order your stock - in fact almost every operation that you need to conduct your business.

You can be confident in choosing a System Ten 220 Series computer because it now has the strength of Europe's most successful computer company, ICL, behind it. This means access to the best engineering, support and training services anywhere in the world. And the assurance that comes from choosing a supplier with a secure future. Thanks to ICL a good computer system is now even better.



If you would like more information on the System Ten 220 Computer, or a demonstration of its capabilities, please tick the appropriate box, complete the coupon and send to:

(North) David Marland, ICL, Alberton House, St. Mary's Parsonage, Manchester M3 2WP or Ring Manchester 1061 833 9111. (South) Alan Morris, ICL, Pembroke House, Wellesley Road, Croydon CR2 3QP or ring 01-686 2566.

more information demonstration

Name _____ Title _____

Company _____ Address _____

ICL System Ten _____

Telephone: _____ FT1

WORLD TRADE NEWS

New Courtaulds initiative in Far East markets

BY RHYS DAVID, TEXTILES CORRESPONDENT

COURTAULDS is to open a new office in Japan this month in a bid to expand its already rapidly growing trade in fibres and fabrics with the emerging textiles producers in the Far East.

Yesterday that it had become apparent during the course of 1976 that with the devaluation of sterling and rising costs in competitor countries such as Japan, substantial scope existed for increasing sales in the area.

Record rail exports predicted

By Ian Hargreaves

THE U.K. railway industry is confidently predicting record export orders this year worth more than £80m. It emerged yesterday.

U.K. carpet exports up 51%

Financial Times Reporter

BRITAIN'S CARPET industry achieved record exports of more than £12m. in 1976—an increase of 51 per cent. on its 1975 total of £7.9m.

CARICOM

Lean pickings for exporters

BY DAVID RENWICK IN TRINIDAD

ECONOMIC difficulties facing some of the major member territories of the Caribbean Community and Common Market (CARICOM) bloc will cause a sharp cutback in imports this year that is bound to affect British trade.

Jamaica and Guyana are hardest hit. Together they account for 28m. of a total CARICOM population of 5m.

In Jamaica's case, a marked drop in earnings because of sluggish demand for bauxite and alumina in North America

The situation worsened after the PNP's overwhelming victory in the December 15 general election (the party won 47 of 80 seats in the House of Representatives)

The total sum will be strictly rationed between imports of raw materials, consumer goods and

capital goods. Earlier cuts on motor-cars (the import of which was stopped completely in February last year) and heavy equipment (computers, cranes, earthmoving machinery, steamrollers, etc.) will remain in force.

The latest trade figures illustrate the acute nature of Jamaica's problem. In the first nine months of 1976, the trade gap widened to \$Ja.237.5m.

The Government has said it will eventually centralise all purchases for the public sector under a single State agency as an integral part of its attempt to keep imports under control.

The Prime Minister Mr. Forbes Burnham, has declared from 1977 to be "the year of austerity" and ordered a \$Guyana100m. (£27.7m.) cut in the import bill.

The Government alone will be spending \$TTr2.431bn. through its Budget this year, about \$TTr350m. of it on the capital programmes of the company under its control (in the more Trinidad and Tobago economy the State holds the majority share in over 25 enterprises).

of payments deficit of about \$Barbados20.8m. (\$10.4m.) in 1976.

The sole exception to the general CARICOM economic policy in Trinidad and Tobago, is only producer of oil in the region, which is benefiting from the high petroleum prices and will improve its position even further in the course of 1977 thanks to the two OPEC price increases set for January and July.

Provisional figures for 1977 suggest a trade surplus of the order of \$TTr422.8m. (£100m.) Net foreign-reserves in August were at the record high of \$TTr2.140bn.

The Government alone will be spending \$TTr2.431bn. through its Budget this year, about \$TTr350m. of it on the capital programmes of the company under its control (in the more Trinidad and Tobago economy the State holds the majority share in over 25 enterprises).

Surplus oil revenue has been set aside in 29 special funds for development expenditure on a wide range of projects, including energy based industries, school waterworks, highways, telephones, electricity air transport, agriculture, public buildings, port expansion and so on.

Middle East orders for SIR

BY PAUL BETTS

ROME, Feb. 15.

THE LARGEST private Italian chemical and engineering group, Societa Italiana Resine (SIR), which recently completed a major desalination plant in Qatar, announced today that it has been contracted by the Qatar Government to build a similar plant near Doha.

Sadelme of Italy and ASEA of Sweden, last year also won a \$30m. contract from the Energy Ministry for building eight power distribution stations in the province.

Iran in Nigerian project

BY RICHARD JOHNS

THE Iranian Management Engineering Group has won a \$10m. sub-contract from Tsvetmetrom Export (TSMPE), the Soviet state construction company, for providing various services for pipeline projects in Nigeria.

equipment purchased will be from Western suppliers. The background to what might appear at first sight to be a curious deal uniting U.K. consultancy techniques and Soviet civil engineering is IMEG's responsibility for the design of the first Iranian gas trunkline to the Soviet Union.

New small ICL series launched

By Christopher Lorenz

ICL expects to win orders worth more than £100m. by 1980 for a new type of small computer system, with the vast majority in exports. This was revealed yesterday when the company launched its System Ten 220 Series, which is intended to help increase ICL's share of the small computer market by a substantial margin.

The product extends the line taken from Singer five months ago, when ICL bought the international side of the U.S. company's business machines division.

One of the marketing benefits was to enlarge the number of ICL dealerships across the world. These took it into some 15 new markets for the first time, including seven in Latin America, seven in the Far East (including Japan) and others in the Middle East.

Reaffirming his faith in the former Singer product line, Mr. Ellis said System Ten computers alone had attracted £7.5m. worth of business in the last three months. Manufacture of the new 20 Series will begin in the Utica, New York factory which ICL bought last year, but this work is currently being transferred to its U.K. factories.

Lloyds Bank in Dubai

Lloyds Bank International has opened a full banking branch in Dubai. The new branch is able to provide a complete range of banking services and will be responsible for the development and international activities in the United Arab Emirates.

U.S. spirit duties

The U.S. Treasury Department said it will no longer collect countervailing duties on spirits of any kind imported from Britain. The order on spirits from Britain has been in effect since 1914 although it has been amended several times as export bounties have been eliminated.

Boeing order

Boeing said that Singapore Airlines has ordered three Boeing 727s for delivery in early 1978. The order represents the exercise of options announced in mid-1976 when Singapore Airlines placed its first order for three 727s.

Cement for Venezuela

Venezuela will be required to import some 44m. sacks of cement this year in order to cover the deficit in national production, according to the Venezuelan Cement Producers' Association. This would mean a sizeable increase over last year's imports, estimated to be at around 26m. sacks.

Hong Kong contract

Hawker Siddeley Water Engineering has won a £462,500 contract with the public works department in Hong Kong to provide water engineering equipment for development of Shatin New Town in the New Territories. The contractor is represented in Hong Kong by Hutcheson-Boag Engineering.

Manila talks

A top level group from the City of London leaves the U.K. this week for a three-day Anglo-Philippine financial conference starting next Monday in Manila. President Marcos will open the conference, which will cover a range of subjects including joint ventures, the development of a capital market, insurance and re-insurance, foreign exchange, gold and Euro-dollar soft commodities, banking services, and construction and engineering consultancy.

Libyan award

Libya's Posts and Telecommunications Corporation has awarded British a £75,052,000 (£11m.) contract for the expansion of telex exchange in Tripoli and Benghazi. The contract involves increasing telex lines and according to a Posts and Telecommunications Corporation spokesman in Tripoli the expansion will take place within 22 months.

Polish order

Orders worth £3m. to supply equipment in Poland, South America and the U.K. have been obtained by the Manchester-based Francis Shaw, which produces machinery for the plastics, rubber and cable industries. Tyre-making plant valued at £1m. will be installed this year at the Distyrv tyre factory in Poland. Shaw will also supply equipment worth over £1m. to Dunlop, for use in their home and overseas factories, and export nearly £500,000 worth of plant to Argentina.

Chinese trade

Japan's two-way trade with China fell 20 per cent. in 1976 from year earlier to \$39m. the first decline in eight years. The Japan External Trade Organisation (JETRO) said, Japan's trade in 1976 accounted for 22 to 23 per cent. of China's entire trade with foreign nations, compared with 26.7 per cent. in 1975.

NOTICE OF REDEMPTION To the Holders of Government of New Zealand Twenty Year 6 1/2% Bonds due March 15, 1986.

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of the Bonds of the above-described issue, Morgan Guaranty Trust Company of New York, as Fiscal Agent, has drawn by lot for redemption on March 15, 1977, at 100% of the principal amount thereof through operation of the Sinking Fund, \$236,000 principal amount of said Twenty Year 6 1/2% Bonds due March 15, 1986 bearing the following distinctive numbers:

Table with columns of bond numbers: M-66 1048 2441 3936 5322 6491 7024 7301 7856 8914 9319 9996 10588 11227 12139 12622 14380 15114 15580 15929 16283 16637 17001 17375 17759 18143 18527 18911 19295 19679 20063 20447 20831 21215 21599 21983 22367 22751 23135 23519 23903 24287 24671 25055 25439 25823 26207 26591 26975 27359 27743 28127 28511 28895 29279 29663 30047 30431 30815 31199 31583 31967 32351 32735 33119 33503 33887 34271 34655 35039 35423 35807 36191 36575 36959 37343 37727 38111 38495 38879 39263 39647 40031 40415 40799 41183 41567 41951 42335 42719 43103 43487 43871 44255 44639 45023 45407 45791 46175 46559 46943 47327 47711 48095 48479 48863 49247 49631 50015 50399 50783 51167 51551 51935 52319 52703 53087 53471 53855 54239 54623 55007 55391 55775 56159 56543 56927 57311 57695 58079 58463 58847 59231 59615 60000

On March 15, 1977, the Bonds designated above will become due and payable at the principal amount thereof in such coin or currency of the United States of America as is legal tender for the payment thereof in public and private debts, and will be paid upon surrender thereof at the corporate trust office of Morgan Guaranty Trust Company of New York, 15 Broad Street, New York, New York 10015, or at the option of the holder, but subject in any laws and regulations applicable thereto for the country of use of the following offices, at the office of Morgan Guaranty Trust Company of New York in Antwerp, Brussels, Frankfurt, London or Paris, or at the office of Baring Brothers & Co., Limited in London.

Bonds surrendered for redemption should have attached all unmaturing coupons appurtenant thereto. Coupons due March 15, 1977 should be detached and collected in the usual manner. From and after March 15, 1977 interest shall cease to accrue on the Bonds herein designated for redemption.

February 9, 1977. GOVERNMENT OF NEW ZEALAND



Sure, every country's a holidayland — but Switzerland is a complete Holiday World!

Contact your Travel Agent or: Swiss National Tourist Office, Swiss Centre, 1, New Coventry Street, London W1V 3HG, Tel. 01-734 1921

SWITZERLAND

second only to one's own land

مكتبة الصلح

HOME NEWS

Restrictive pay curbs cannot continue says CBI president

BY JAMES McDONALD

RESTRAINT of the present restrictive kind could not continue much longer, Lord Watkin, president of the Confederation of British Industry, said in London yesterday.

While this restraint continued, however, the damage being done to the economy was being built up, he said. The so-called poverty trap area, he said, was becoming more serious.

Difficult

It might be difficult for the Government to do enough for these people in the middle, but our Budget representations to be published soon will indicate priorities.

Free collective bargaining as used to be known is no longer relevant. Present arrangements are being re-outdated and now largely irrelevant.

Poorest 'hit most by inflation'

BY MICHAEL BLANDEN

THE POOREST households have fared more than the rest of the population from the effects of inflation, according to the National Consumer Council.

Varley likely to set up engineering inquiry

BY KENNETH GOODING, INDUSTRIAL CORRESPONDENT

GOVERNMENT committee of inquiry into the engineering profession seems almost certain to be set up by Mr. Eric Varley, Secretary of State for Industry.

London insurers expect heavy Antwerp claims

HEAVY INSURANCE claims are expected in the London market for the fire at Antwerp Docks which destroyed warehouses and other buildings.



An artist's impression of the Hawker Siddeley Nimrod.

Unions increase efforts to win Nimrod decision

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

THE TRADES unions are increasing their efforts to win a change of mind by the Government in favour of buying the Hawker Siddeley Nimrod.

For some years, the public had been urged to "Buy British"—yet, "when it comes to an item of significant cost, the Government is prepared to ignore this advice."

Supermarkets dominate sales of food to freezer owners

BY ELINOR GOODMAN, CONSUMER AFFAIRS CORRESPONDENT

SUPERMARKETS have managed to assert their dominance of sales of frozen food to the rapidly growing number of home freezer owners.

The report shows that the Co-op is still the leader among supermarkets in the development of freezer centres.

Concern for waterways

BY JAMES McDONALD

THE BRITISH Waterways Board is concerned that under the devolution proposals in the Scotland and Wales Bill.

Scottish Executive and the Welsh Assembly.

Accounting change gives cement group extra £5m.

BY MICHAEL LAFFERTY

A CHANGE in accounting practice has increased the distributable profits of the Bath and Portland Cement Group for the year ended October 31.

The new approach by Bath and Portland, which has the approval of auditors Peat Marwick Mitchell, came after the decision of the Accounting Standards Committee to suspend its standard on deferred taxation late last year following widespread protest from industry.

World ship orders at eight-year low

BY KEVIN DONE, INDUSTRIAL STAFF

ORDERS held by British ship yards fell more than 1,250,000 tons in the last three months of last year to their lowest point for several years.

Japan heads the league. It claimed nearly 33 per cent of all orders at the end of the year with 18.2m tons gross—a fall of 2.1m tons on the previous quarter.

WHAT OTHER EEC COUNTRY HAS BRITISH-STYLE LAWS AND FINANCIAL INSTITUTIONS -AND WON'T TAX YOUR PROFITS?

IN PLAIN ENGLISH THE REPUBLIC OF IRELAND.

Your company doesn't have to go outside the EEC to gain the advantages of tax-free profits and special financial terms. You don't even need to go to a country with foreign laws, foreign business attitudes and a foreign language.



Laker awaits U.S. approval

MR. FREDDIE LAKER, chairman of Laker Airways, will tell officials of the Department of Trade today that he wants to start the Skytrain cut-price Atlantic service as soon as he gets U.S. approval for it.



The Technical Page

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

OFFICE EQUIPMENT

Word processors to boom

WEST EUROPE'S word-processing market will treble and reach a total of £2,520m. over the next decade, according to a study by Frost & Sullivan.

One major sector, text-processing equipment and services, will grow five-fold. Worth \$55m. last year, it will increase to \$335m. by 1985 and have a total value of \$1,728m. during the ten years.

Germany, with a 40 per cent share, will be the dominant market of the 17 countries covered by the study. Britain and France will each hold around 16 per cent. Holland, Sweden and Switzerland will have a 4 per cent. each.

A second major sector of Europe's word-processing market, dictating equipment, will increase at an annual average of 7 per cent. Valued at \$51m. last year, it will reach \$102m. by 1985 and total \$792m. over the next decade. Only Britain and Germany have significant penetration. Holland, Sweden and Switzerland are moderate users. Dictating equipment is not popular in France and Italy or in several smaller European countries.

Offices are the last significant areas of business relatively untouched by automation, asserts the 400-page study, "Word Processing in Europe."

Paperwork has been growing and has led to a larger proportion of the work force being employed in offices. A fundamental alteration of ingrained work patterns is required, the study asserts.

Mechanical text editors are responsible at present for virtually the entire European market. Sales will climb until the early 1980s but, under the impact of display-based equipment, will begin to fall slowly and total \$891m. in the next ten years.

Stand-alone display-text processors are still novel in Europe. Sales growth will be rapid and will reach \$529m. in the decade to 1985.

Dedicated text-processing shared-logic systems are also just being introduced by specialist suppliers or as adaptations to existing mini-computer or small business computer systems. Because of high initial cost and the magnitude of office structural changes necessary, shared-logic systems at first will be acceptable only to large and well-organised companies. Sales of \$144m. are forecast for the next ten years.

Time-shared text-processing services from bureaux will not become a big market in Europe, the study asserts. Total revenues are unlikely to exceed \$20m. during the next decade.

Data-processing computers will provide the means for text-processing concerned with complex filing and retrieval systems. Many suppliers of small business systems will also make con-

current data- and text-processing possible on their equipment. Additional spending relative to text-processing will amount to £144m. over the next ten years.

More from BAS Industrial Consultants, Mile Ash, Radlett, Herts. Radlett 6376.

Duplicator makes light of the work

PORTABLE, a stencil duplicator for in-house or departmental use, is to be launched by Roneo Vickers on March 1.

The retail industry is expected to be one prime market for production on the premises of price lists, customer mailings, product labels, etc.

The Roneo 270 will accept small documents from postcards up to a paper size of 8½ inches x 14 inches (21.6cm. x 35.6cm.). Operation is through a single lever control linking is automatic and speed is variable up to about 80 copies a minute and weight is only 38lbs.

The machine is a major advance on the 250 stencil duplicator which Roneo has sold for a quarter of a century.

Roneo has signed an agreement with Office and Electronic Machines who, through its subsidiary Imperial Business Equipment and its agents, will jointly market with Roneo's sales force both this new machine and the 475 middle range duplicator launched 12 months ago. The company says the O.E.M. agreement will effectively increase by some 30 per cent. the selling strength for these stencil duplicators in the small to medium sized sector of the U.K. market.

Roneo Vickers, Roneo House, Lansdowne Road, Croydon CR9 2HA. 01-886 4333.

Screen aid for typing accuracy

SINGLE-STATION word processing equipment by Wordplex has an intelligent display, dual floppy disc memory and high-speed character printer.

Suitable for all general purpose office applications, it is primarily intended to provide a low-cost entry point to a compatible Wordplex multi-station system for large organisations wanting to build up experience of computer and screen typing.

Significant increases in typing productivity have been demonstrated in trials of Wordplex 1,

Accurate powder feed

A VOLUMETRIC feeder providing accurate feed rates for powders with widely differing flow characteristics is being marketed by Russell Finex, Adam Street, London WC2 (01-836 0065).

Called the Funken Auto Feeder, it is claimed that the machine can maintain accuracy of ± 1 per cent, with outputs ranging from 0.5 litre/hr up to 50 cu. metres/hr.

The feeder has an upper hopper from which the powder is conveyed to a lower vessel by impeller, via three pressure regulating apertures in a level control disc. This disc keeps a constant pressure on the powder. Another impeller in the lower vessel propels the powder through a circular orifice to a measuring disc from which it is discharged through a gate.

Output speed is regulated by altering the opening of the gate and the speed of the lower disc. It is claimed that cavitation and bridging is eliminated.

Hygroscopic materials which tend to agglomerate, and difficult substances such as fluidised cement and semi-solid pigments can be handled.

Close check on oil flow

A COMPANY which started in 1971 in the manufacture of simple electronic instrumentation and has recently locked in to the important business of custody transfer of oil products, Spectra-Tek U.K., has won an important £90,000 North Sea order.

Supplied to Daniels Industries (which is working for Foster Wheeler and BP), the equipment will be used for fiscal metering

Submersible pump units

RESISTANT TO aggressive liquids, abrasive particles in suspension, and high temperatures, a submersible pump has been

INSTRUMENTS

stations at the Sullom Voe terminal where oil comes in from the Brent and Ninian pipelines first into tanks and subsequently into tankers.

Main point about the equipment is that it accurately accounts for variables that affect the financial value such as temperature, pressure, density and gives a result to 0.1 per cent, rather than the 1.0 per cent common in the past.

Crash pulses from meters are electronically sealed into engineering units after the accuracy of the meters has been established by passing known volumes through them. The effect of temperature changes on the oil is taken into account on a regular basis and compensated volumes are displayed for each bank of meters.

At Sullom Voe the microprocessors will pass their information over data highways to centralised site control computers when requested and will be able to receive and act on instructions altering the meter scaling factors as subsequent proof runs establish changes in the meter performance.

According to the company the one order accuracy improvement

achieved can mean that on a daily product flow worth £1m. the equipment could pay for itself in a day or two.

An interesting side benefit is that the shore measurement at Sullom Voe can be compared with flow results from instruments on the offshore production platforms so that the integrity of the submerged pipeline can be monitored.

Spectra-Tek says that it has quoted for £1m. of business since it launched the equipment in October 1976, enough to keep its factory active for five years. More from Outgang Lane, Pigeons, North Yorkshire, YO9 7JA (0751 72941).

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Cable check analyses

SIEMENS has developed an automatic telecommunications cable checker K1076 which is controlled by a computer and is therefore faster and more economical than conventional methods.

Having checked for the correct connection of the test sample instrument will then look for short or open, crossed or ground contacting conductors and then go on to measure loop and other resistive parameters, effective single wire and coupling capacitance, shunt conductance, and dissipation factor.

Suitably equipped, the system will also register crosstalk readings. Measurement frequency extends from 128Hz to 1000 Hz.

The tester is programmed Basic and has a storage capacity of 28 kilobytes and a word length of 16 bits. The measured data, evaluated according to the program and the results produced on a paper printer. Each program written can be stored on magnetic tape. More from Siemens AG, Postfach 329 D-8520 Erlangen 2, West Germany.

MAINTENANCE

ONE WAY of sealing off a pipe which has a leak in it is to fit it with a bag which is then inflated.

Bags designed for this job are now being marketed in the U.K. by Avander Industrial Equipment, 28, Jesmond Road, Newcastle-upon-Tyne. They are manufactured in Germany from a pre-reinforced with nylon and are fitted with quick release couplings.

There are three standard sizes with deflated diameters ranging from 8½ inches to about 13 inches and expanded diameters from 8 to 20 inches. A foot pump can be used to blow them up.

Bags of air plug pipes

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Three-axle truck from Fodens

A HEAVY-DUTY three-axle truck, grossing 36 tonnes, has been developed by Fodens, Elworth Works, Sandbach, Cheshire CW11 9HZ (09367 3244). Intended for on or off road operation, the truck is also available as the tractor unit for a road train, when it can haul 65 tonnes.

The first production models of this six-wheeler, leaving the works this week, are part of export orders from the Middle East worth £2.4m.

Power is from a 290 hp turbo-charged 14-litre Cummins diesel engine, driving through a 17-inch clutch and eight-speed gearbox. The two 16-ton worm-drive rear axles have secondary gearing in the hubs, and the differentials are lockable. Top speed is 55 mph and the truck can climb hills of 1 in 4.

A four-spring load-equalised suspension is used for the tandem rear bogie, spreading the load through six points over a long span of the chassis. Turning circle is 24 metres.

The cab, which hinges forward for engine maintenance, has been designed for driver comfort, and includes independent springing, tinted glass and forced ventilation.

DATA PROCESSING

ICL's new baby will grow fast

WHEN SINGER Corporation decided to cut its losses on its involvement in advanced electronics some two years ago, its successful international operation was pushing the development of new equipment specifically for the smaller user and having software written for it by Plymouth in Britain and elsewhere.

Since then, and following the acquisition of most of the Singer data processing operation by International Computers, the question has been frequently asked what had happened to the new machine which was intended to be a follow-on from the Singer System Ten 110, some 4,000 of which are installed around the world.

ICL/Singer have learned their lesson in that all operating

TRANSPORT

Three-axle truck from Fodens

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SCREENING

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CONFERENCE

Exploiting technology to the full

REMARKABLE improvements in industrial performance can result from the intelligent application of already existing technology.

This is the theme of the first technology transfer conference to be mounted by the Committee of Directors of Research Associations. It will be held at the Hyde Park Hotel, London, on May 9 and 10, and will have a strong practical bias.

The CDRA represents people who live by technology transfer—the Industrial Research Associations—and it is calling the conference Transtec 77.

Emphasis will be placed on examples of successful technology transfer involving industry and Research Associations and a policy background will be provided by speakers from U.K. Government and from the EC.

The main aim will be to give representatives from industry, from government and from the Research Associations the opportunity to exchange up-to-date ideas and experience and to give full support to the declared Government policy of encouragement for technology transfer in all its forms.

Information on the meeting from CDRA at 45, Victoria Street, London SW1H 0EQ. (01-222 0589.)

PROCESSING

Mixer will move heavy doughs

VERTICAL spindle 550 kilo capacity mixer has been introduced by Baker Perkins, of Peterborough, for processing hard and soft biscuit doughs with mix times controlled sequentially by pushbutton or automatically by pre-set timer.

Cycle times, which allow for loading the tub and discharge of a finished mix, will depend on the type of dough being processed. The time span ranges from 15 to 45 minutes, the longer period being for exceptionally heavy doughs.

Simplicity of the drive and controls aids maintenance as well as operation. The machine's twin blades achieve swift and complete dispersion of ingredients and their high circulating action ensures gentle mixing of fruited and all other special doughs.

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مكتبات الصلح

HOME NEWS

W plans to move British centre

STUART ALEXANDER

SWAGEN is to go ahead with plans to build a central house and headquarters at n Keynes. This will bring the closure of the regions warehouses and the head- quaters at Purley, Surrey. The project was first put for- ward in 1974, when the cost had been estimated at £1.5m. Yesterday, the company had risen to £7.5m. Work is expected to begin on the 23-acre site, with the building ready for occupa- tion by the summer of next year. The whole project completed by the following winter. It is hoped that the Depart- ment of the Environment will grant an office development in the next few days. The centralisation was shelved in the fuel crisis and the up in car sales, but the com- pany said yesterday that its situation now would cut costs give a better service to customers.

aining

he five existing warehouses at Ramsgate, Doncaster, Widdow (Wills), Edinburgh, and Whitburn (Scott). They employ about 450 ple. The distribution centre Ramsgate employing 250 ple. will not be affected. The number are employed at about 500 will be employed at new complex to include a training school designed to cope with 5,000 people a year from shop mechanics to dealer- proprietors. Volkswagen is holding preliminary talks with the General Municipal Workers Union provisions for redundancies has promised that under the agreement to be worked out there will be "above-normal redun- dancy payments" for those who go out.

Postal chief seeks better productivity

Kevin Done, Industrial Staff, TER years of rising labour costs and declining letter traffic, productivity improvements in the postal business were vital if rises in postal prices were to be reined. Mr. Alex Curran, managing director of posts, said last night.

he time had come for the introduction of a reliable and extensive system of continuous measurement of postal efficiency. Mr. Curran, speaking at the Direct Mail Producers Association and Postmasters' Association meeting, said that such a system would give a user insight into customer needs and open the way for potential productivity improve- ment. The Post Office would favour greater flexibility in the next round of the pay policy discus- sions, so that productivity agree- ments could be designed to give a fair share of the benefits. As well as trimming costs, it is seeking to improve produc- tion. The Post Office is anxious to arrest the decline in postal efficiency.

Quality allegations rejected

MICHAEL DONNE, AEROSPACE CORRESPONDENT

STLAND AIRCRAFT, acting on behalf of its subsidiary, Westland Helicopters, yesterday rejected the Ministry of Defence suggestions that unsound parts were used for repairs to Bell Type 47 Sioux helicopters. First mentioned under- neath by Westland some 18 months ago. The allegations that some of the parts for the Bell 47s were made in the U.S. were made in a newspaper article in the U.S. It was sug- gested that spare parts made by companies other than Bell might have been given false seals of approval. Westland said investigations of its own and with the Ministry of Defence failed to establish any evidence that unsafe

Diplomats give warning on service cuts

DAVID CHURCHILL, LABOUR STAFF

A FIRM warning that senior diplomats in Britain's embassies could take "direct action short of a strike" if the expected cuts in the Diplomatic Service were made came last night from the diplomats' trade union, the Society of Civil and Public Civil Servants. The warning was based on a private survey of about 1,300 members of the Diplomatic Service, mainly executive grades up to consul-general level, the survey was made to gauge reaction to the review of the service being carried out by the Central Policy Review Staff, generally known as the Think Tank, headed by Sir Kenneth Berrill. The review is due to be published in April. An overwhelming majority of the diplomats said that they would consider such action as withdrawing their co-operation, refusing to work overtime and covering for colleagues on leave and other forms of protest if the Think Tank recommendations were not carried out in a "generally acceptable way" or if individual diplomats suffered from the cuts. The depth of feeling among the diplomats surprised union leaders. Mr. Eric Brent, the union's national officer for the Diplo-

Richardson predicts renewed growth for finance houses

MICHAEL BLANDEN

A CONTINUED role and re- newed growth for the finance house sector was forecast last night by Mr. Gordon Richardson, Governor of the Bank of England. He warned the Finance Houses Association, however, that business would not be easy to come a result of past changes in official policy and the present implemen- tation of the Consumer Credit Act. "Nevertheless, there will continue to be sound and profitable business to be done in the fields in which you operate and I believe that the finance-house operating with its specialised expertise and with a tradition of innovation and adaptability will continue to have an impor- tant role to play." Mr. Richardson, speaking at the association annual dinner, indicated that while the authori-

Vickers sets up washing machinery division

KENNETH GOODING, INDUSTRIAL CORRESPONDENT

VICKERS signalled its intention yesterday of becoming U.K. market leader in the manufacture of industrial washing machinery by announcing the formation of a new division, Vickers-Aquamatic. The group hopes quickly to fill the vacuum left in this particular market because of the liquidation of Centri-Spray, the Slough-based subsidiary of Centri-Spray Corporation of Michigan. Vickers has had protracted negotiations with the U.S. group

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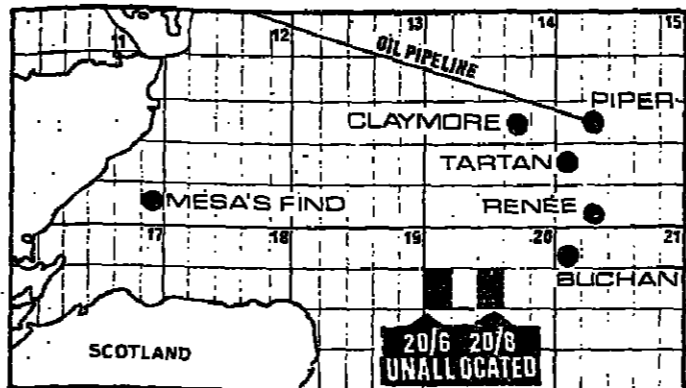
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Mesa Petroleum left out of new offshore round

RAY DAFTER, ENERGY CORRESPONDENT

MESA PETROLEUM, discoverer of one of the most attractive oil fields in the North Sea, has been excluded from the latest round of offshore licences in circumstances which are causing growing concern in sectors of the oil industry. Mesa was one of several companies that applied for new licences in Quadrant 20 of the Moray Firth. What has upset Mesa and the other applicants is that two of the concessions offered in the quadrant have not been allocated.



The move is thought to be linked with the indecision still surrounding the applications of Amoco and the British Gas Corporation. Amoco was left out of the fifth round allocations because of its reluctance to agree to State participation on Department of Energy terms. However, the Department has not ruled out the possibility that an agreement could be reached with Amoco soon, which would allow for the belated allocation of licences. As a result, it appears that an allocation decision has been deferred on blocks in which Amoco might be interested, including two in the English Channel. The Mesa experience indicates that they might also include at least one in Quadrant 20. It was thought in the industry that the Quadrant 20 blocks would be among those most eagerly sought. Those left un-

allocated—20/6 and 20/8—the only 40 miles and 55 miles, respectively, from the Scottish mainland. They are also near Transworld's Buchan Field and the Forties pipeline. None of those involved—the Department, Amoco or Mesa—would comment yesterday, although it was pointed out in Whitehall that the Government did not normally give reasons for allocating or not allocating individual blocks. Furthermore, it is not obliged to licence all blocks applied for. It is understood, however, that Mesa—one of the most successful North Sea oil explorers last year—was particularly dis- appointed. The group had applied for several blocks but failed to receive a single concession. The Mesa group, which includes P & O (one of the successful fifth round applicants), is continuing to evaluate the shallow water find on the 11/30 block of the Moray Firth. It is understood that it is not yet in a position to submit a field development plan to the Govern- ment, although it is thought that the oil reserves already identi- fied are sufficient to make the field a commercial prospect. Potential recoverable reserves of 350m-500m barrels have been widely mentioned, although none of the estimates has been confirmed by Mesa. If the third appraisal well, now being drilled to the south- west of previous tests, proved successful, the reserve prospects could be significantly enhanced.

The Chevron Group's decision to order a third production platform for the Ninian Field is questioned by oil analysts at Wood Mackenzie in their latest report. Chevron said this month that about £200m was to be spent on developing the northern extension of the field, including about £40m for a steel platform structure to be built at Highland Fabricators' Nigg Bay yard. Wood Mackenzie estimates that the cost of exploiting this sector of the field would be more than \$800m (about £350m). As a result of this investment only 100m more barrels of oil would be recovered bringing the field's total recoverable reserves to 1.1bn barrels. The rate of return on the third platform would be only 9 per cent. The extra investment would also reduce the Govern- ment's taxation by 10 per cent. Chevron yesterday rejected the report's conclusions. It said that partners in the Ninian project included "hard-nosed" international companies such as Standard Oil of California (Chevron's parent), ICI British Petroleum and a State Oil undertaking, the British National Oil Corporation. "The decision was taken on sound commercial grounds."

Foreign tourists spend more in shops

Michael Thompson-Noel

OVERSEAS visitors to London are spending more in shops and stores, according to the latest London visitors survey published by the British Tourist Authority. Spending in shops by foreign visitors last summer accounted for 40 per cent of their total spending in London, compared with 36 per cent the previous summer. At least seven out of 10 tourists on a shopping in London—more than half of them in the Oxford Street-Regent Street area. The friendliness of Londoners and the history and tradition of the City were the attractions most frequently mentioned in the survey. A fifth of the tourists questioned singled out London's "atmosphere" as particularly attractive.

Repeat visits

An estimated 7.5m. foreign visitors spent one night or more in London last year. Nearly half of them also made trips to other parts of the U.K. The capital also attracted 10.5m. visitors from within the U.K. Overseas visitors accounted for 70 per cent of London's 1976 tourist income. On the whole, visitors to London are young—seven out of 10 are under 35. The survey also discloses that more and more visitors are returning to London for repeat visits. Two-fifths of the visitors questioned said that they could not think of any problems they had encountered as tourists in London. There was some concern about high prices, but this has declined over the past four years. London Visitors Survey, British Tourist Authority, 24 St James's Street, London, WC1N 2EJ.

Industry 'must attract more talent'

MORE TALENTED young people must be attracted into industry, Mr. Leslie Huxford, Parliamentary Under-Secretary, Department of Industry, said at Maidenhead yesterday.

"We are all agreed on the need to shift more resources into manufacturing industry. Part of the solution, I believe, lies in making industry more attractive to students and also in making courses in schools more relevant to industry's needs."

New men join Freight Board

IAN HARGREAVES

TWO SENIOR executives in the State-owned National Freight Corporation, Mr. Peter Thompson and Mr. Victor Paige, have been appointed to the Board. The changes, announced by Mr. William Rodgers, the Minister of Transport, are designed to add the strength of professional transport men to the Board, which previously, apart from Sir Daniel Pettit, the chairman, was composed of part-timers. Sir Daniel loses his title as chief executive, which passes to Mr. Thompson, but will remain

for the remainder of his three-year contract as part-time chairman. He said yesterday that he had made the appointment of Mr. Thompson and Mr. Paige to the Board a condition of his accepting a further term of office in 1975. The move is also squarely in line with Mr. Rodgers' belief in the importance of the full-time Board member. There were changes along similar lines at British Rail last month. Mr. Thompson joined the cor-

Large advertisement for Wigham Poland Group featuring a stylized image of the Eiffel Tower. Text includes: 'Where in the world do they insure the Eiffel Tower?', 'Through the Wigham Poland Group, of course.', 'Our French Company, Cofast in Paris, is not scared of heights. As one of the world's largest insurance broking groups, Wigham Poland with its network covering five continents can help you with any insurance problem on land, sea or in the air.', 'WIGHAM POLAND GROUP INTERNATIONAL INSURANCE & REINSURANCE BROKERS · SHIPBROKERS', 'Bevington House, 24/26 Minorities, London EC3N 1BY', 'Tel: 01-709 0505 Telex: 887501'.

Advertisement for Trade and Industry magazine. Text includes: 'Cut yourself into the EEC', 'Trade and Industry', 'Nobody covers the EEC like Trade and Industry magazine.', 'FOR THOSE WHO NEED TO KNOW', 'Trade and Industry 35p weekly can help you make the right decisions', 'To: Trade and Industry, Room 439, 1 Victoria Street, London SW1H 0ET'.

The Management Page

Ferry Dodsworth profiles the 29-year-old managing director of a major part of British Leyland.

Fast route to the top

DISCUSSING British Leyland's recent, well-known management weaknesses, Mr. Alex Ark, its chief executive, once said that he had no alternative but to put young men "into the othehouse and hope that they will bloom."

This is a brave policy, with obvious inherent weaknesses. Leyland itself had no little trouble 18 months ago with Mr. Geoffrey Robinson, who turned from high flier into enfant terrible when he chose to disagree with the group's plans for its little halfpenny car, the Square Cars. Since then, as he moved into politics and became Labour MP, Robinson has merged as a strong critic of the group's policies.

But this episode does not seem to have weakened the corporation's appetite for youth: last week it appointed a 29-year-old, John Neill, to the newly important managing directorship of the parts division.

Neill conjures up an irrepressible image of a young man in an extremely big hurry. He had only been at Leyland for three years, and it is just seven since he left university. Yet today he finds himself with 3,600 workers, a £200m. turnover, and one of the most profitable units in the whole company under his control.

Unlike most of the present generation of top Leyland management, he does not come from a financial background. He first came to the notice of Leyland's top management on his brush with rather bizarre decision to take the Unipart, Leyland's "com-

petitive" parts concern, into the girlie calendar business. This was a highly unorthodox move for a company not much given to publicising itself at that time; and, more to the point, it infuriated Lord Stokes, the then chairman of the group.

After being summoned to the head office to explain his extravagance—following the hallowed traditions of the calendar business the model had been flown to a tropical island to be photographed—Neill managed to persuade Lord Stokes that it was all in a good cause. The calendar stayed and Neill emerged, as he puts it, with his marketing strategy for Unipart intact.

The Unipart calendar starts where Pirelli left off, with a finely-tuned combination of elegance and exposure. It was designed, according to Neill, as part of a grand strategy to turn Leyland's parts organisation into an aggressive sales company. His salesmen would go round and drop off the first sheet of the calendar—it comes in single sheets—and return a month later with the next sheet and, he says, to mounting interest. He claims that sales of gaskets, one of Unipart's most pedestrian products, were raised by 400 per cent. while the first calendar campaign was mounted.

So behind all the gimmickery, there was a serious point. Neill's problem, as head of merchandising and then of marketing within the division, was to change the inherited attitudes towards the market which meant that salesmen had become little more than order-takers.

The background to the emergence of this new way of treating the parts operation at Leyland is the wave of competitive pressure which swept through the industry during the 1960s. Parts replacement has always been quite a lucrative business. But with a large segment of the operation tied to manufacturers' patented equipment, a degree of complacency had crept in which made it a natural target for predators. Specialist parts manufacturers, such as Quinton Hazell, began to emerge to attack the competitive parts market—bits and pieces which are not patented—while the established component producers also began to move into distribution with the aim of grabbing some of the margins on replacement for themselves.

The car manufacturers were now reacting in two ways. First, they have gone more aggressively into parts distribution, branding their goods, selling into the retail trade, and gearing up activity in their garage outlets. Second, they have moved more strongly into competitive parts both for their own vehicles and for other manufacturers' cars. Unipart (Leyland), Motorex (Ford), Mopar (Chrysler) all sell bits and pieces for each other's vehicles and are moving into foreign cars as well.

The marketing battle that has ensued from all this competitive activity has brought into the parts business the high-spending, aggressive sales techniques more commonly associated with fast-moving consumer products.

These techniques were most in evidence at Leyland with the development of the Unipart



Mr. John Neill with a page from the calendar he introduced for Leyland's Unipart business.

"shops," the display centres in garages which were conceived and launched by Neill himself. These display areas are meant to attract customers with a blend of bright packaging and strong advertising and promotion, in which the local Leyland dealer is backed up by a Unipart team advising on any managerial problems that arise.

In the past two years 400 of these centres have been opened, and there is no doubting the enthusiasm of Leyland dealers for the development.

Despite his contagious enthusiasm for what Unipart has been doing, Neill communicates it in relatively sober managerial jargon. After university at Strathclyde, in which he spent a lot of time on student affairs—"people used to clap when I appeared at lectures"—as well as taking both an MBA and a degree in marketing and economics, he joined AG Delco, the General Motors parts subsidiary.

So the areas of modern marketing like setting up programmes, giving presentations, establishing targets, making people stick to objectives, getting rid of them if they don't—these are familiar. His first initiative in his new position was to set much higher targets for next year.

The next big task is to switch to a more general management role. He has landed in the job with a challenge right on his doorstep. The parts division's main warehouse at Oxford is at present strike-bound, and work is gradually grinding to a halt.

With only a week in the managing director's chair behind him, he is moving gingerly, confining himself to general observations about the desperate need in Britain to settle differences without taking damages everyone. But he has already desecrated the voluminous documents which set out the company's pre-arranged agreements. "I now understand the rules," he says, "although I don't necessarily understand the game. But I shall learn."



The high cost of injuries

BY A. H. HERMANN

THE EXTENT to which manufacturers should be liable for injury and damage to consumers caused by defects in their products, even if they were not negligent in producing them, is an increasingly pressing question. Other related questions are whether the liability should be limited—and whether the insurance industry can cover it—or, whether the State should be responsible for the innocent victims of technological advances pursued by equally innocent manufacturers.

In Europe, these points are being hotly debated in governmental and inter-governmental commissions and only from time to time do they gain public notice—mostly in the wake of exceptional disasters like that caused by the administration of Thalidomide to pregnant women.

The situation is quite different in the U.S. where courts award substantial damages and, more recently, also punitive damages. Nor is the U.S. product liability problem linked with exceptional disasters only, like the DC10 Turkish Airlines crash outside Paris—it is the everyday worry of medium-size and small manufacturers of pharmaceuticals, toiletries, electrical appliances, motorcars, machine tools and even such mundane products as tin-openers.

How much compensation customers should get from manufacturers for injuries caused by faulty products is being hotly debated in Europe at present

award of over \$15,000 since the attorney's outlay in bringing the action is estimated at some \$4,000 to \$5,000; a third of \$15,000 would not reward his efforts sufficiently.

Self-insurance

Giant companies can budget against these responsibilities and practice self-insurance. But smaller concerns must insure and some of them find they can no longer afford the rising insurance premiums. Not only the viability of individual enterprises, but of whole industries—such as the manufacture of woodworking machines—is said to be threatened. Industry and insurance companies claim that the entire U.S. economy and in particular its export capacity is threatened by a "product liability crisis."

Liability

On the other hand the system opens the door to courts to those who have higher claims but could not meet the costs of litigation if unsuccessful—a risk which in the U.K. bars from courts all who are not poor enough to receive Legal Aid and not rich enough to bear the enormous costs themselves.

Another advantage of the contingency fee system is that the attorneys weed out optimistic litigants who have either no case or at best a weak one, and this protects the courts from an even greater congestion of work. However, some of the worst effects of this system come to the fore in two other important aspects of U.S. litigation, which are bound to misfire as a side-effect of incessant innovation, is now generally accepted, other "demonstrative" evidence which such risks must be borne by consumers collectively and the financially interested in result, to go to great lengths in order to impress the jury. Slides and films are projected in the courtroom to demonstrate the weaknesses of the product in and the stifling of innovation.

BUSINESS PROBLEM

Taxing overseas dividends

Under tax on overseas dividends (September 15) you referred to section 122 (1)(a) of the Taxes Act. The Tax Inspector here assessed and not accounted for any bank charges on dividends and Australian dividends and refers to the basis assessment under Schedule D Inspector is different from that

used by the remitting bank. Could you comment, please? If the Inspector persists in his refusal to allow the deductions and allowances to which you are entitled under subsection (a) of section 122 of the Taxes Act, tell him that you wish your appeal against his assessment to be heard by the Special Commissioners; this should quickly resolve the impasse in your favour.

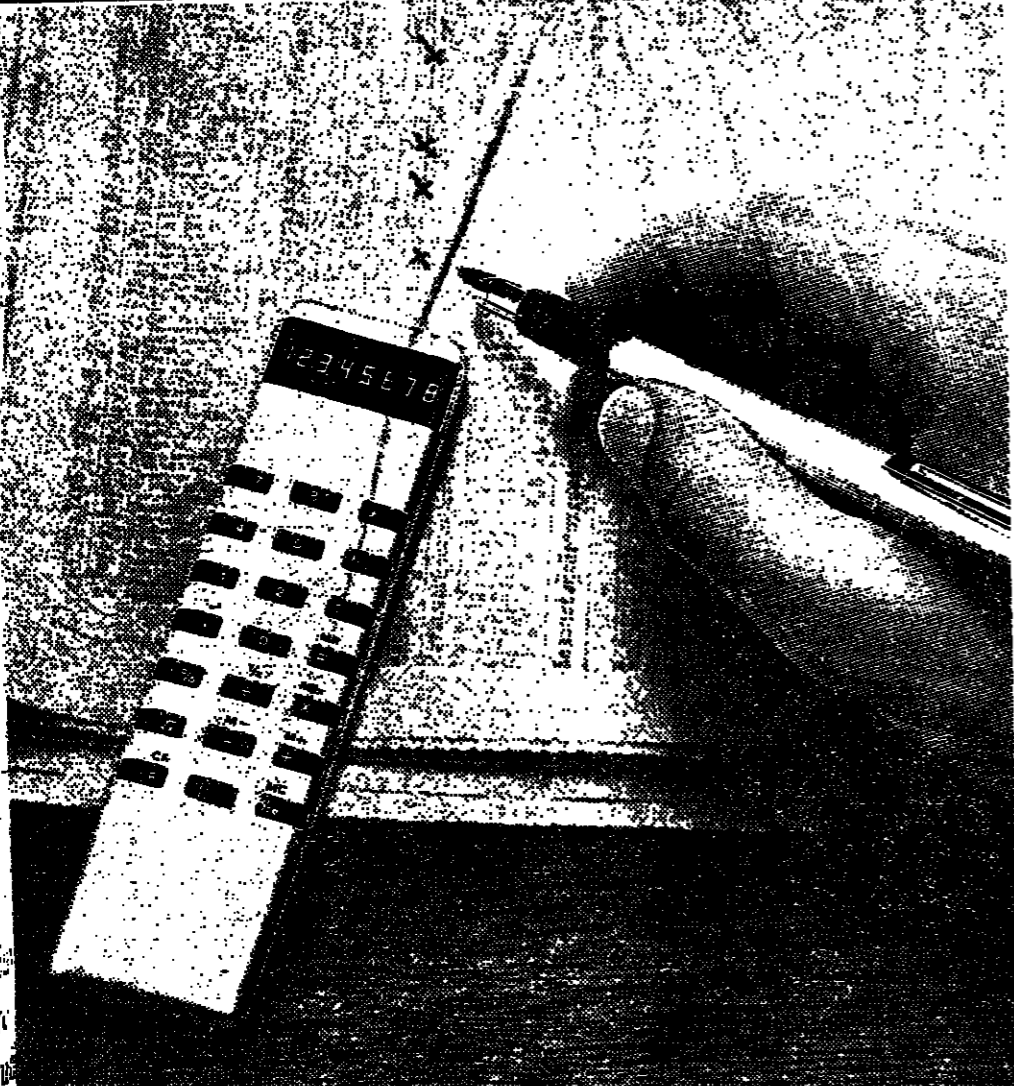
On the question of the rate of exchange, perhaps we may quote you from a reply published in the Finance and the Family column on June 12, under the heading "Exchange control":

1973-73	1973-74	1974-75	1975-76
£1=82.013	£1=82.013	£1=81.69	£1=81.646
£1=49.677p	£1=50.188p	£1=50.171p	£1=50.753p

"From what you say, we presume that you are resident, ordinarily resident, and domiciled in the U.K. (and resident here for exchange control purposes also). On that basis, your Australian investment income for the purposes of assessment under case V of schedule D should be measured by reference to the London buying rate for Australian demand drafts on the date on which each dividend was payable; this is implicit in the legislation but is not spelled out anywhere. In practice, if the taxpayer does not object, the Revenue often uses an average rate of exchange: whether this benefits the taxpayer or the Revenue depends on how the dividends are spread (or bunched) over each 12 months.

The average rates of exchange adopted by many Inspectors for case V purposes are as shown in the above table.

If the strict exchange-rate basis is adopted, you should bear in mind that fluctuations in the E/£ exchange rate while funds are lying in your Melbourne bank account may give rise to capital gains (or losses), under paragraph 11A of schedule 7 to the Finance Act 1965, as



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Business books

The Control of Staff-Related Overhead, by A. Brearley. Macmillan, £10. An examination of the techniques available to improve staff productivity, the book provides a detailed study of the effectiveness of four representative programmes.

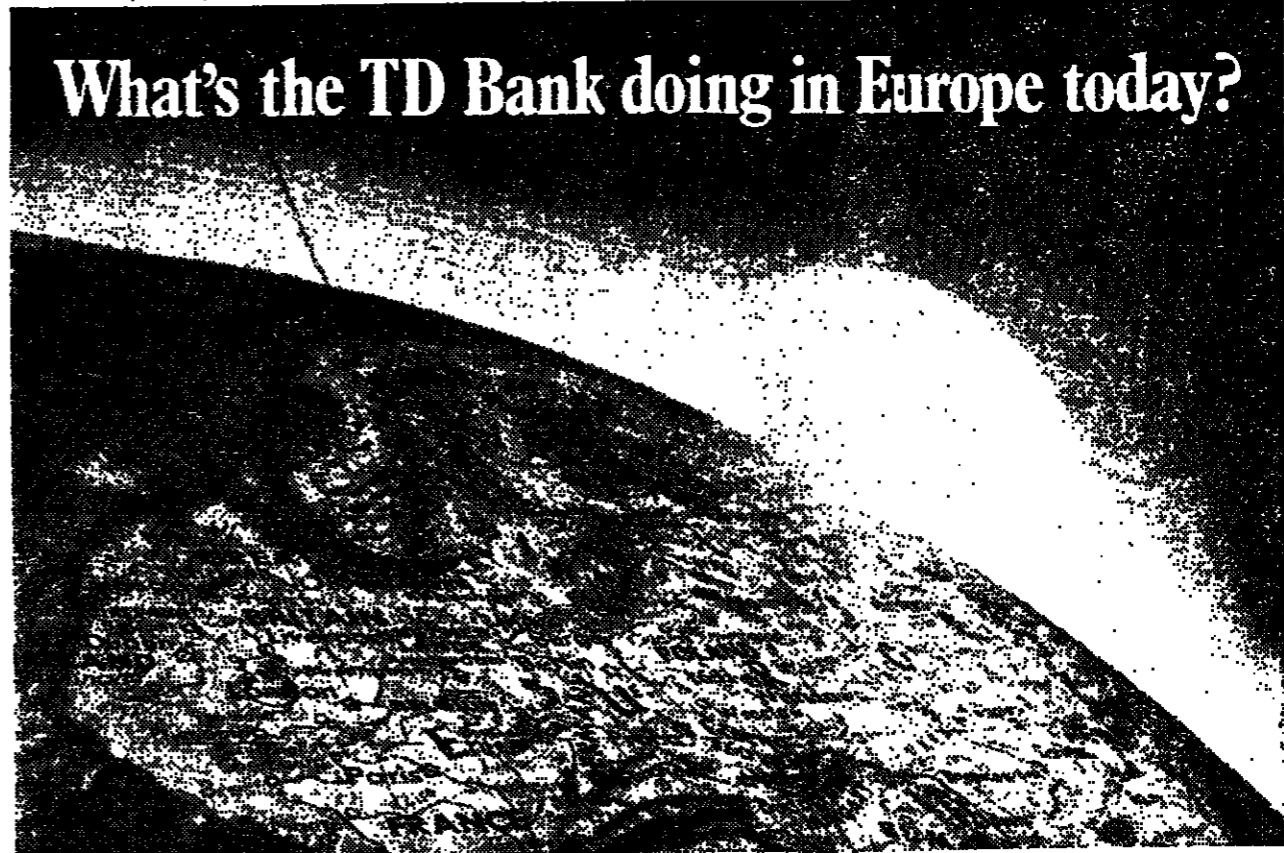
Price Theory by Milton Friedman. The Aldine Publishing Company, Chicago, £9.95. The author has updated this book, originally published in 1962.

Swindling and Selling by Arthur A. Liff. The Free Press, \$10.95. This sets out to uncover the underlying elements common to both con games and modern mass merchandising and advertising.

How to Finance Your Company by Cyril Aydon. Business Books, £8.95. A comprehensive guide to numerous ways of financing a company.

The Social Challenge to Business by Robert W Ackerman. Harvard University Press. In this book, Mr. Ackerman deals with the adaptation of large corporations to the new social climate.

The Basic Arts of Marketing by Ray L. Williams. Business Books, £8.95. A marketing organisation is not a business necessity; acceptance of the marketing approach is. This book shows how to orient your thinking to this end.



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Soares knocks at the door

PORTUGAL'S new timetable for EEC entry, sketched out by Dr. Mario Soares, the Prime Minister, in London yesterday appears to involve a more rapid move to full economic integration than he has previously suggested.

Agriculture

But Dr. Soares has left a number of important questions unanswered. He was less than totally clear at his Press conference about the precise target date he envisages for full membership, and he made no mention of agriculture, which is bound to be one of the most difficult issues for the entry negotiations.

Second chance

Portugal's case for full membership in the long run can hardly be denied and the Nine should acknowledge it. Every democratic country in Europe has the right to apply for membership and the Nine have every interest in bolstering Portugal's fledgling democracy. It would be unwise to disappoint Dr. Soares, who has staked the future of his Government on a favourable response.

Slow recovery in output

INTERPRETING THE index of industrial production is now a task more than ever an art rather than a science, but at least it is now possible to reconcile without too much difficulty the accounts of recent experience given by the Central Statistical Office and the Confederation of British Industry.

The picture given by the CBI survey held last month was that the proportion of firms working below capacity had fallen for four successive surveys, from a peak of 78 to 64 per cent; for comparison, the proportion working below capacity 12 months after the turn of the previous business cycle was only 52 per cent.

1975 nadir For what it is worth, however, the answer to the value question does—making a rough-and-ready allowance for price movements—suggest a gradual rise in real output over the past 18 months while the answer to the volume question does show a consistent recovery trend since the summer of 1975. It was at about that time that the official index of production, too, touched its lowest point.

IF THE social contract falls apart in the attempt to negotiate a three year of voluntary pay restraint, the Government will probably need to look no further for one of the principal causes than its own past complacency towards the greatly increased tax burden which it has placed upon industrial workers at all levels of earnings.

The contribution which income tax has made to the decline in living standards is brought out clearly in the chart. It records the changes at quarterly intervals since 1972 in the real value, before and after tax (and national insurance contributions), of the average earnings of full-time adult male manual workers in manufacturing industry.

In contrast, the real value of take-home pay, after tax and national insurance, has been declining more or less continuously since late 1973. Until now it has not been the quadrupling of oil prices or inflation generally which has eroded the living standards of the industrial worker, but Mr. Healey's reliance on fiscal drag and his increase in the standard rate of income tax to boost the Government's revenues.

The chart has been drawn up on the assumption that the average industrial earner is married and has two children under 11. However, the experience of the single person, the childless couple, or the larger family earning the industrial average has been broadly similar. The lower paid worker—earning, say, two-thirds of the industrial average (and only 10 per cent of all full-time men aged 21 or over earn two-thirds, or less, of the average)—has fared as badly as the average earner.

MEN AND MATTERS

Beflagged again

David Thomas, marketing manager of the George Tutill company which has been flag-making since the middle of the last century, works in a much misunderstood business, and he cheerily rattles off, then demolishes, a string of misconceptions about flags.

For a start (and I am sure this is something everyone else but me learned about in their youth) the Union Jack is mostly misnamed; it can only be given the suffix when the properly named Union Flag is flown from the jackstaff at the front of one of Her Majesty's vessels.

Then there is the muddled question of flying flags at half mast. That doesn't mean half way up the mast, says Thomas: the idea is to position, say, a four-foot-deep flag four feet from the top of the pole. And only the Queen can order half mast flying.

Thomas adds that there are no restrictions here on flying national or other flags, but planning permission is generally needed to put up a staff (movable or pole fixed). Obviously, the more flag wavers the better as far as Tutill and the eight other British flag-making companies are concerned, though Britons on the whole are not nearly so keen on flags as other Europeans.

Phase III: tax and the sinking industrial wage

BY COLIN JONES

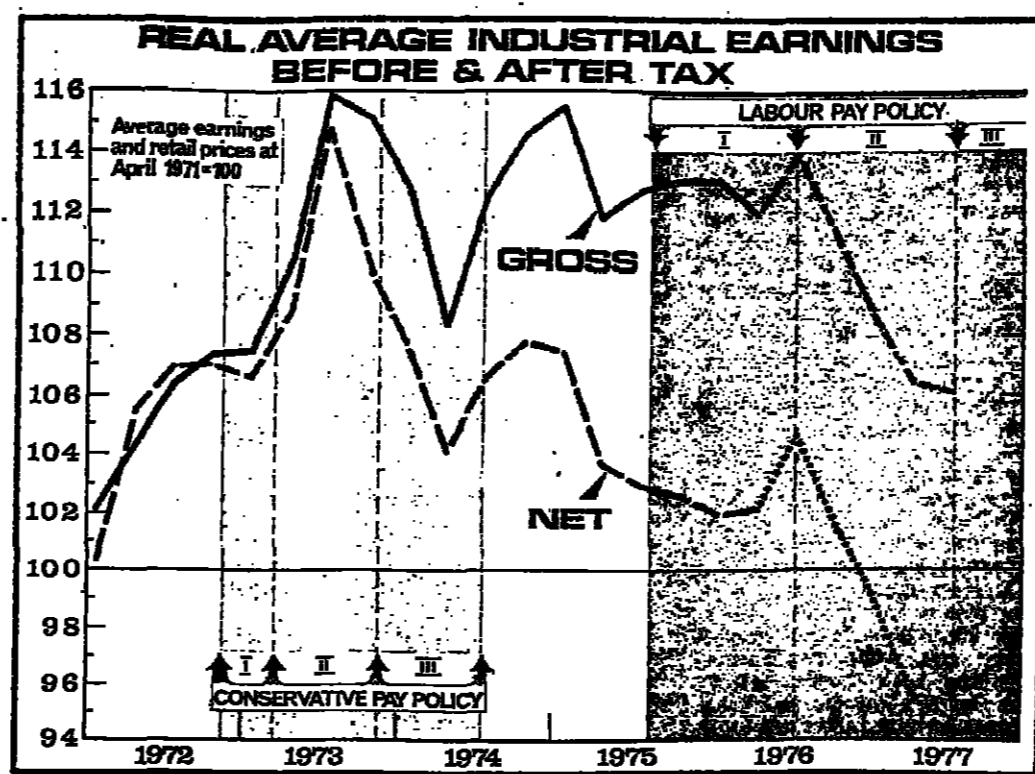


Table titled 'OPTIONS FOR PHASE III' showing 'Increase in Take-Home Pay' for 'Lower Taxes' and 'Higher Pay' scenarios. It includes columns for 'Est. cost', 'Average earnings', and 'Average earnings x 3'.

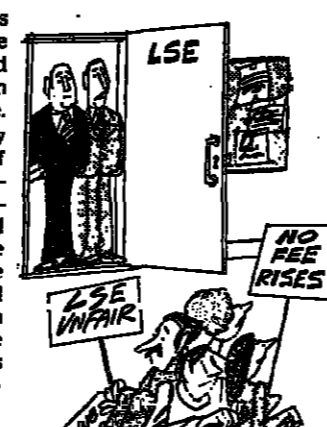
the industrial average in 1973-74 and who has received the maximum increases permitted under successive pay policies since then, plus the same percentage increase as the average industrial worker in the 1974-75 "free-for-all," would have seen his net take-home pay decline in real terms by 30 per cent. since October, 1973.

Welsh woe

Apart from independent flag-flying, another sign of increased national pride is the growth of interest in local language. The official backing for Welsh is evident in road signs and in education syllabuses (there is even a Maths degree course in Welsh), but the commercial world has been somewhat less enthused.

Irish catch

Having decided to press on with its decision to impose unilaterally a 50-mile fishing limit the teeth of considerable opposition in Brussels the Irish Government is now working out exactly how it is going to police its expanded seas.



"On the other hand it's ideal training for their entry into the labour market."

Duck

My "beware" series lives on. In the East Anglian fen country is a 19th-century sign warning "Our keepers now have orders to shoot poachers on sight and question them afterwards, if practicable."

Three years ago a childless couple would have received £14.48 a week in supplementary benefit (including an average rent addition) and they would have started to pay tax, if the husband was employed, once he earned more than £14.91 a week.

How much Mr. Healey could afford to "give away" in his Budget probably not even he knows for certain at the moment. The pre-Budget forecasts are still being worked out. But with next year's public sector borrowing requirement limited by the Government's undertaking to the IMF, the sum is likely to be relatively modest.

Whatever the final sum, it is unlikely to go very far towards preserving real value of net take-home pay in 1977-78. One widely canvassed possibility is the restoration of a reduced rate of tax on the first tranche of taxable income—say, 25 per cent. on the first £500. This would cost the revenue somewhat more than £1bn. in a full year, and reduce the tax-bite for every taxpayer by the princely sum of 96p a week—adding, as can be seen from the table, about 1 1/2 per cent. to the net pay of the average earner.

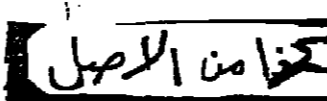
Alternatively (or, perhaps, additionally) Mr. Healey could devote £1bn. to an increase in personal allowances—say, an increase of £140 for the married couple and, if he wished to continue the process of adjusting the ratio between the single person's and married person's allowance, an increase of £65 for the single person.

A third possibility, which has also been mentioned, can be discarded straightaway. This would be the restoration of tax relief on national insurance contributions. It would be administratively complex and therefore

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Observer



FINANCIAL TIMES SURVEY

Wednesday February 16 1977

London Metal Exchange

The London Metal Exchange Centennial year has started on a buoyant note with price increases for all five metals traded, including record levels for lead and tin. But the outlook is clouded with uncertainty about the world's economic state and the threat of shortages because of lack of investment in new mines.

Clouds over the market

by John Edwards
Commodities Editor

THE OUTLOOK for future supplies and prices of non-ferrous metals is distinctly clouded in a year in which the London Metal Exchange celebrates its centennial. This could probably be said at any time in the 100 years of the exchange's existence — so undisturbed has been the behaviour of metal prices. But fact remains that in recent years the break up of the Bretton Woods monetary system, fluctuating international exchange rates, and the acceleration in the inflation rate in the industrialised world, have created a new underlying uncertainty in all commodity markets.

This uncertainty is intensified in the case of metals by growing concern about the depletion of the world's non-renewable resources as demand increases year by year. The supply crisis focused attention on the problem of future supplies of vital raw materials. In fact it is now generally accepted, despite gloomy Malthusian forebodings by the Club of Rome, that earth's crust does contain sufficient supplies of most raw materials, with the possible exception of oil, to last for the foreseeable future.

It should also be remembered that many metals do not disappear once taken out of the ground and used by industry; they can be reclaimed in varying quantities for further use.

The big problem with the supply of primary metals, however, is the increasing difficulty of cost of obtaining them in the future, compared with the relatively easy deposits exploited in the past. The depth

one has to dig, the grade of deposits worked and the difficulty of exploiting reserves, particularly from under the sea, all have an effect on the cost of the product. But as the British-North American Research Association warned in a special report recently reviewing mineral development in the 1980s, "the system by which capital has hitherto been found for mineral development has broken down."

The steep increase in exploration and production costs as a result of inflation has raised the amount of investment required for developing new resources to massive amounts, often beyond the resources of the mining groups which have previously managed to keep the world supplied with sufficient raw materials. At the same time the mining groups have been further handicapped by political developments which have discouraged investment in the third world, where the bulk of the world's natural resources are now concentrated. According to the British-North American Research report "hundreds of millions of dollars of capital that might have flowed to the Third World has been invested in developing alternative supplies in areas where the financial outcome is more predictable and the profitability more assured."

In other words there is a great reluctance to invest the increasingly large sums needed for metal mining projects in countries where nationalisation, crippling taxes or other impositions might make the investment worthless or non-profitable after a short period. This is a problem that will have to be solved urgently if the world is to have sufficient non-ferrous metal supplies in the 1980s since the gap between exploration and actual mine production is a long period of five to seven years or more. There are two main stumbling blocks. One, triggered off by the oil crisis, is the fear that producers of vital raw materials might decide to try to follow the example set by the oil producing countries and form supply cartels that could hold the consumers to ransom, possibly for political motives. It makes sense in that context for the industrialised countries to develop their own resources or develop substitutes, where possible to reduce their vulnerability, even if this is not a

sensible policy from overall world view.

The initial scare that a lot of mini-Openers might spring up has lessened as further studies showed that cartels for other raw materials, with greater known reserves, are unlikely to be effective in the long term and certainly not during periods of industrial depression. However, there is also little doubt that producer cartels could play a significant role during times of shortage and industrial boom. Hence the move by consumer countries to take a much more sympathetic attitude towards efforts by the U.N. Conference on Trade and Development, amongst others, to encourage commodity pacts between producers and consumers to seek price stabilisation.

This leads to the second stumbling block: the need for price levels sufficient to encourage the investment required to ensure future supplies.

Not only do prices have to be high enough but also have to offer the prospect of remaining at a sufficiently high level to justify the investment. And it is here that the future role of the London Metal Exchange may be at risk. Demands by producers, particularly those in developing countries, for a more stable guaranteed return for the natural resources they

supply to the rest of the world, are receiving a much more positive response from consumers worried about the future supply situation. It is recognised that the days of obtaining raw materials on the cheap are numbered, if not gone already. The main complication is that the political repercussions of a swing in power from the industrialised world to the primary producers has made it that much more difficult to overcome the considerable practical problems of price stabilisation.

Example

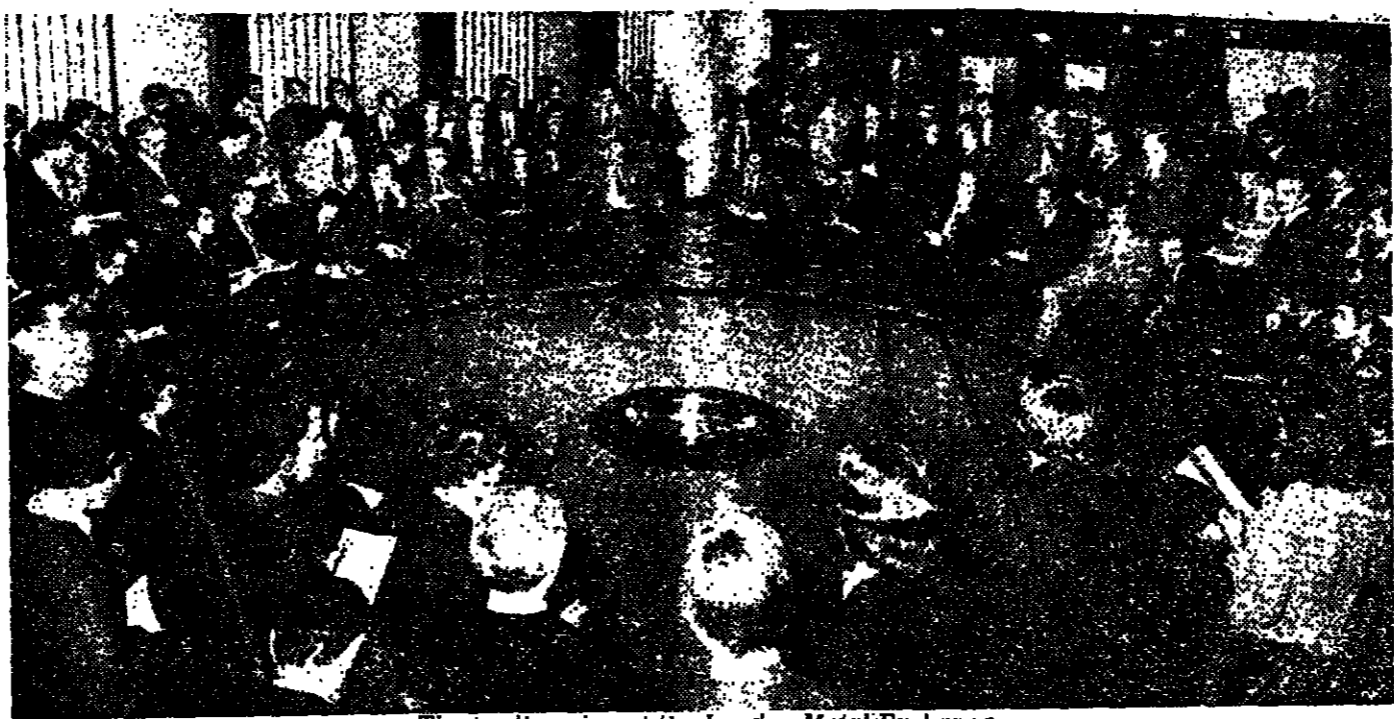
A prime example is provided by copper, where producers and consumers negotiating directly appeared to be making good progress, but have since become bogged down by the political squabble over Unctad's elaborate plan for an integrated commodity programme and multi-buffer stock fund. In the International Tin Agreement too, increasing political arguments have handicapped the previous smooth working of the debate between consumers and producers.

Nevertheless it seems inevitable that eventually some consensus will have to emerge on price stabilisation, reducing the importance of the London

changes on "paper" money. The Bank of England sounded a warning in 1976 when it forced the temporary suspension of non-trade business in the zinc market because of too great an element of speculation being shown up in the careful, detailed, returns it now keeps on commodity trading. But too restrictive domestic curbs might deal a fatal blow to the LME's role as an international market. Pressure for a "clearing house" system to replace the principals' contract currently used, because of fears about some possible economic disaster undermining the financial base of the market, could also lead to a fundamental change in the future for the Exchange.

The failure to start any new markets on the Metal Exchange, since the silver contract was introduced in 1968 does not look too promising for the future, especially with several of the current metals traded likely to be subject to more outside price control.

But the Exchange has shown over the years excellent survival powers and ability to adapt in accordance with changing circumstances. Membership of the Exchange has been diversified considerably over recent years, lessening the previous dominance of one or two members



The trading ring at the London Metal Exchange.

Fortunes of the five metals traded

COPPER IS by far the most important market of the five metals traded on the London Metal Exchange. It attracts the most interest, reflecting not only its supply and demand, but also acting as a general indicator of industrial and economic well-being worldwide.

In recent years the huge flow of speculative funds has driven the New York copper market (Comex) the lead in terms of turnover. But the LME market is acknowledged as the major influence internationally, as its prices are used as the basis for direct supply contracts between producers and consumers all over the world except North America, where producers have their own fixed price system.

The London Metal Exchange market is also of great importance to those developing countries, which provide the bulk of the world's copper supply and rely on them as their main, often virtually sole, source of foreign exchange earnings. Hence copper is one of the ten "core" commodities in which UNCTAD is seeking to stabilise its international price through international price stabilisation agreements. Third world producers have also formed the Council of Copper Exporting Countries (Cocopex) which for many years has been seeking methods of boosting prices to more "realistic" levels.

So far these efforts to control prices have failed, like the attempts when the combination of production throughout the world and the large volume of secondary scrap supplies have proved too difficult to regulate.

At present, because of high prices in the late 1960s and encouraged production, and there has been a low level of demand in the past two years, surplus

stocks of copper worldwide have built up to record amounts. In the London Metal Exchange warehouses alone there are over 600,000 tonnes, which compares with a previous peak of 180,000 tonnes in December 1973 and around only 10,000 tonnes during the early months of 1974 when prices reached their highest ever level of £1,400 a tonne.

Although present prices look high historically, they also include the sharp rise in inflation during recent years and the steep fall in the value of sterling in West Germany, for example, prices are at an historically low level.

Surplus

As a result it is estimated that present prices are below the cost of production for at least 50 per cent of the world's copper producing mines. Current surplus stocks, and the already planned increases in output, are expected to ensure adequate supplies of copper for the next few years. But with little investment attracted at a time when the cost of increasing production has risen enormously, an acute scarcity of supplies is expected to develop in the 1980s.

The long-term prospects, therefore, are for much higher prices, especially as substitution from aluminium is likely to be at a much lower cost than in the past because of the production and price problems which also face bauxite and aluminium producers, in producing a metal requiring a high energy input.

For the short-term the trend in copper prices is likely to be largely influenced by whether or not there is a sustained strike in the U.S. non-ferrous metal

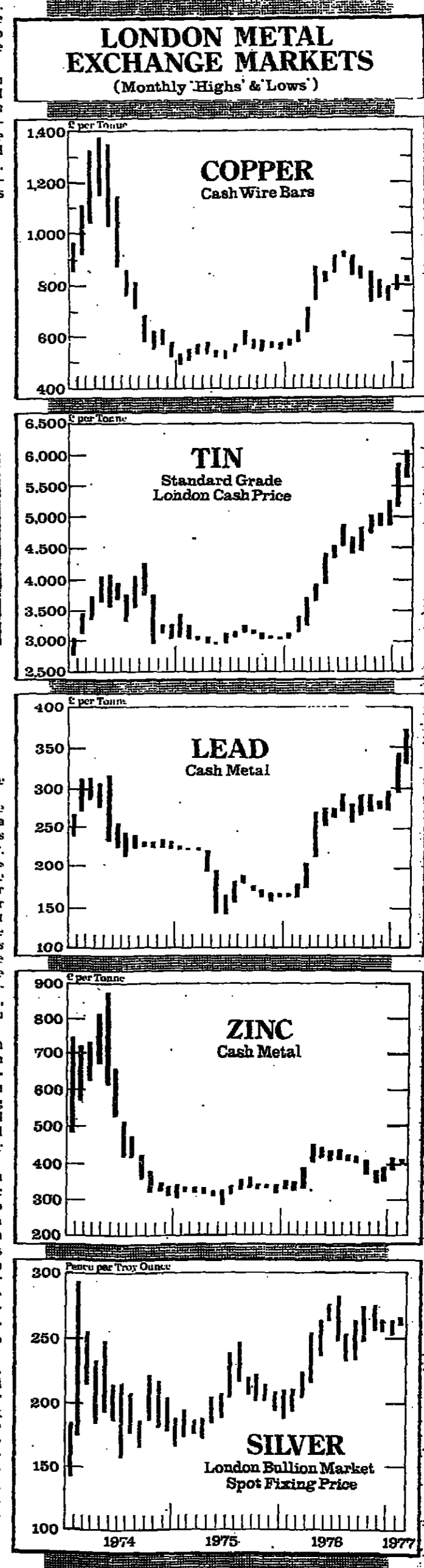
workers, when their three-year labour contracts come up for renewal in the summer months. A worsening situation in Southern Africa, another big copper producing area—could have an important effect. So could possible moves by the U.S. to replenish its exhausted strategic stockpile of copper.

Tin prices are currently at record levels in both London and Malaysia the main market for physical supplies. Although Malaysia is planning to start a tin futures market to provide hedging facilities, currently only available in London, the LME is likely to retain its importance as the main pricing market for the industrialised world. Over the past 20 years tin prices have been subject to control within a "floor" and "ceiling" range set by the International Tin Agreement between producing and consuming countries.

A buffer stock, backed by production quotas when required, has enabled the "floor" to be defended successfully, with only one brief exception. But so far no means has been found of preventing prices rising above the "ceiling" in times of scarcity—as now.

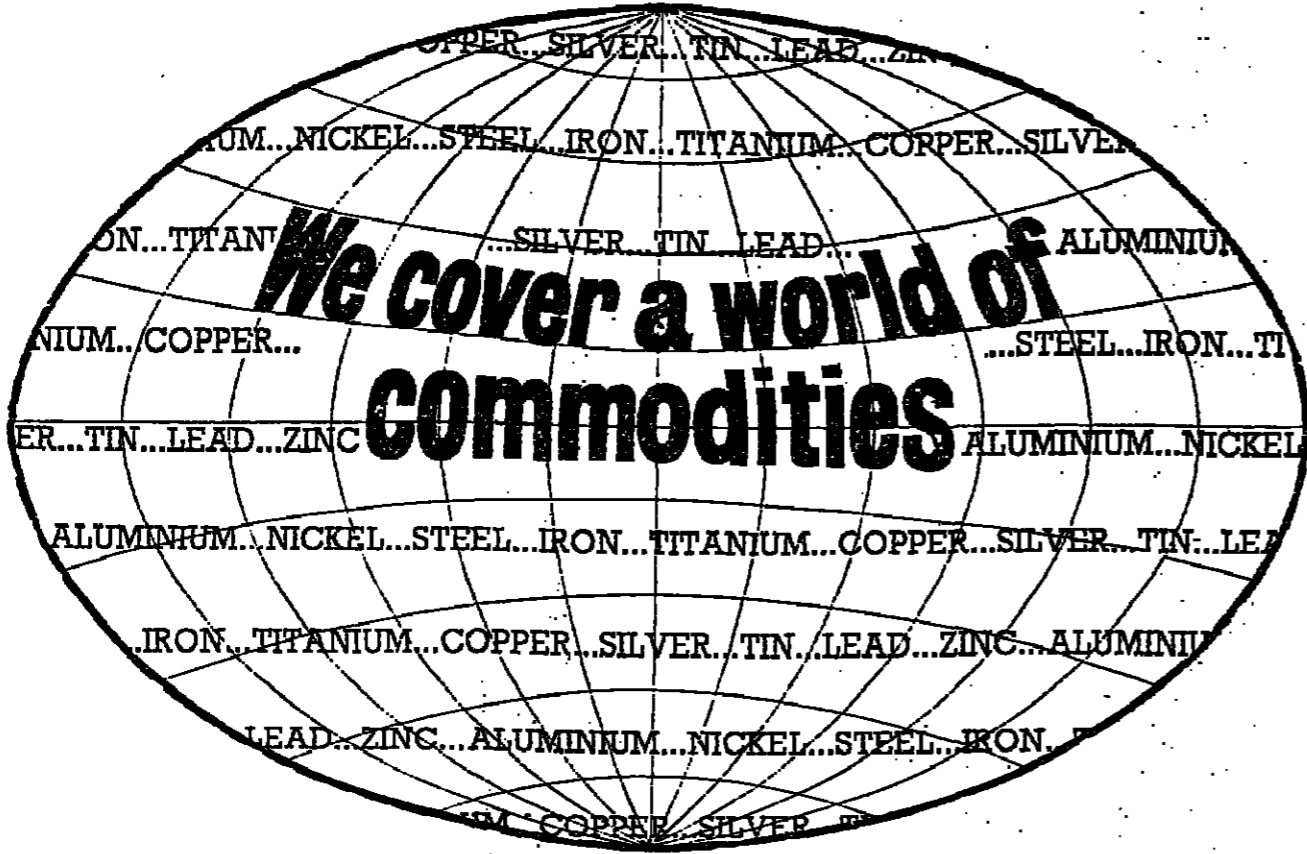
The remarkable turnaround in the tin market during the past two years from a position where heavy surpluses depressed prices to the present shortage which is forcing prices higher and higher, is attributed not only to greater demand but also to the underlying basic problem that few new deposits of tin are being discovered, while the cost of exploiting known lower-grade reserves has risen fast.

In Malaysia, the world's biggest producer of tin, the problem has been further com-



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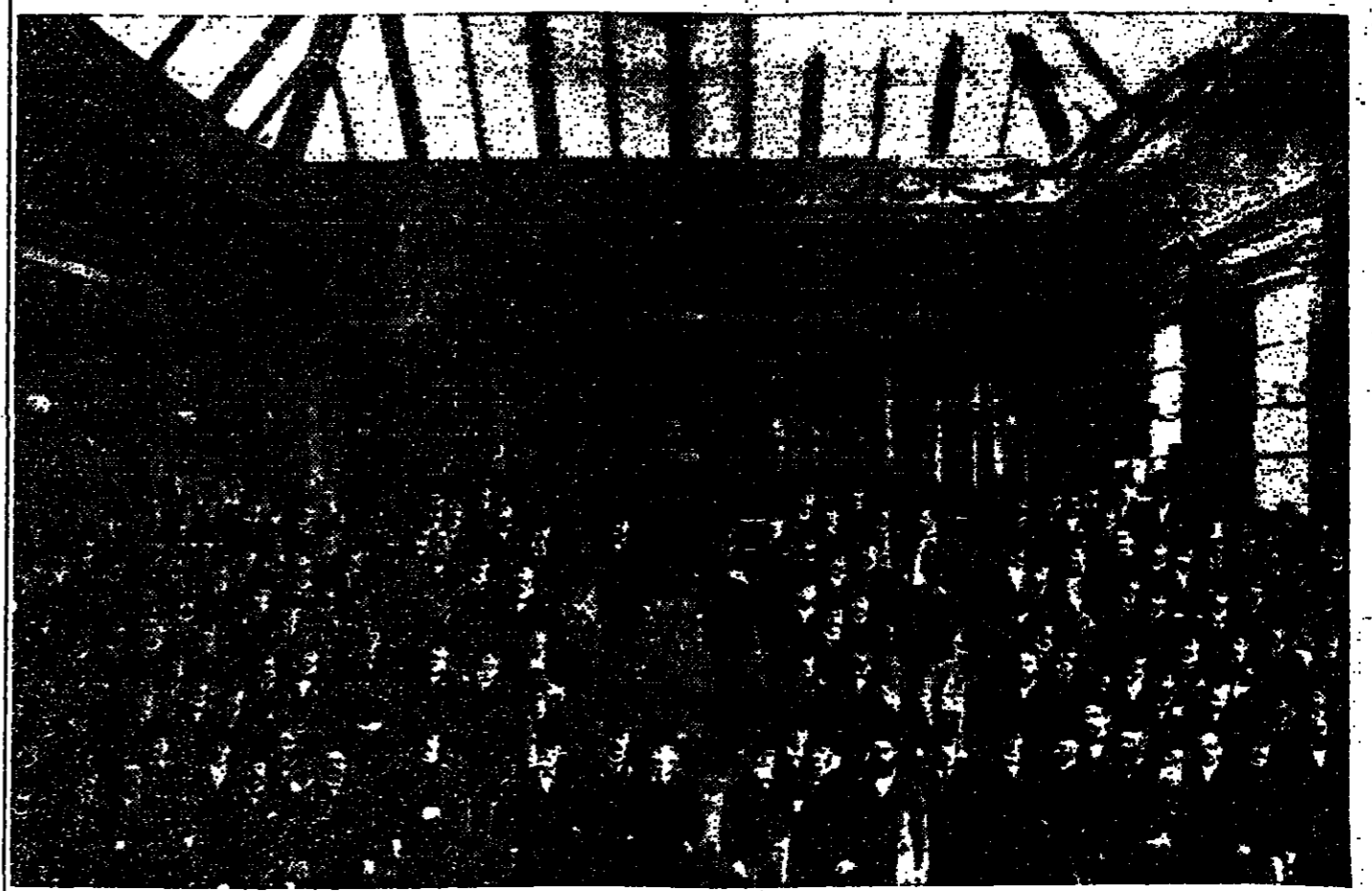


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Members of the London Metal Exchange pictured in 1897 in the Whittington Avenue premises. Since then a "false" ceiling has been installed, partly to prevent rain coming through which on occasions forced traders to put up umbrellas when trading to avoid getting soaked.

The 100 years since Cowper Court

IT IS HARD to trace a precise record of what must have been the many and sometimes fairly hectic changes and surges in the development of the body we now know and recognise as the London Metal Exchange. But there are records of some of the "key" developments, and from these it is possible to pinpoint at least some of the more significant steps in its evolution.

London itself emerged as a centre of international commerce with the establishment of a very efficient financial apparatus. The merchant banks, the classic Bill of Lading and importer, and the growth of the shipping and insurance markets all played their part. Commodity markets naturally gravitated there too, and the metal merchants were known to have met regularly under the roof of Gresham's rebuilt Royal Exchange.

Coffee houses seem to have a special place of their own in the evolution of the London markets. Along with Lloyd's and Garroway's the Jerusalem in Cowper Court saw the origins of two such markets—the Baltic and the Metal Exchange.

But to the metal merchants a less public and more specialised rendezvous was becoming a necessity. For a while they met in the newly opened Lombard Exchange and Newsroom. But the Lombard too was made use of by brokers in other trades and to this extent failed to give the metal merchants all the advantages of a home of their own.

The exchange had by this time consolidated its authority as the source of representative prices for the metals traded there and in so doing it had set certain times of the day for official trading. The periods were short (from 12.30 to 1.15 and from 16.00 to 16.30) and the patter of concentrated official trading in the room after a morning of dealer-to-dealer trading in preparation was established as early in the LME's history as this.

Next came the happy thought of one of the members who traded in copper and tin. These metals were in many senses the founders of the whole LME dealing system, since they were the first to be traded in appreciable quantities, as well as being the best suited to some form of standard contract. Here, it was possible to trade in defined lots of metal of a recognised quality at a given location; in short, to conduct true terminal market business.

It is said that this member took a piece of chalk from his pocket and drew a ring on the floor of the room. All took their places around it. Now it was possible for a true open outcry market to be conducted with bids and offers called to the Ring, the whole proceeding being timed by an official with a watch and a bell.

Since then, and apart from the introduction of the new familiar circular benches, very little has changed outwardly as far as Ring trading is concerned. With the introduction to Ring dealings of new metals (first lead, then zinc and latterly silver) and the splitting of the old standard copper contract in 1963, the trading times have been expanded. But the afternoon market continues to be officially "unofficial" and if the secretary with his watch and handbell has been replaced by electronic clocks then the hubbub of Ring dealings has continued its staccato way virtually unaltered.

Permission to deal in the Ring is granted by the Board and the Committee jointly to those who are already subscribers. Largely because of its steadfast adherence to the concept of a principals' contract

with each taking full financial liability for his obligations made in the market, the LME has perforce to insist on a very high degree of financial "muscle" on the part of its Ring members. As volume of business has grown, and as prices overall have increased, so inevitably must these requirements be reviewed constantly to contain overtrading and preclude as far as is feasible the likelihood of one member putting his fellows at undue risk.

Whether this philosophy (for it really amounts to that) will continue unchanged is outside the scope of this article. What is historically certain is that it has survived from the earliest and most tentative days of trading on the LME.

The only interruptions of this continuity were the unavoidable closures during both world wars. Dealings in tin were recommenced in November, 1949, and other metals followed, with dealings in copper reintroduced in 1953.

How did it all work? This was a merchants' market and those with "something to do" at first merely used the exchange as a convenient place for meeting others who might also have something to do, and for making a bargain. The true open outcry market was still some way off.

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those of copper and tin, in the warehouse, but ex-ship. Furthermore, they did not originally permit trading in date-half-monthly delivery period being decreed.

Both markets have since those days come into line with the overall LME concept of an in-warehouse contract prompt any market day up to three months forward. Delivery course must be at a location selected by the seller; without this protection sellers would find themselves forced to carry stocks of metal in each approved warehouse against the whim of any buyer, and if added cost to the whole market operation is easily seen.

The basic problem with LME contracts—aside from "which warehouse"—must remain that of providing a market broad enough and with sufficient "chips" as to be impervious to squeezing of available supplies. At the same time an within the same parameters that market must allow for a buyer or seller to be sure that the material in issue is such as to satisfy the needs of an ever more fastidious industry.

Unfortunately, this very breadth of allowable grades is far from an ideal delivery market for a fabricator seeking marginal requirements over and above those already contracted by his supplier. In the main therefore the setting of the standards for the LME contract has been a question of conflicting requirements—the broad spectrum within which hedges and even to price (with plenty of metal on warrant) and the far more precise demand of today's technology.

Decision

It was possible to meet this need as well as to establish their market on a more formal basis under set rules of conduct that they took the decision to set up their own company. This would be at once their local authority and responsible for their own premises. The London Metal Exchange Company was duly incorporated in the latter part of 1876. It had its headquarters in Lombard Court off Gracechurch Street, and it held its first meeting on December 19 in that year. The first meeting of the merchants and brokers under the aegis of the new company took place in January, 1877, and so the LME was born.

As happens from time to time even in the most staid organisations, there came a moment when the body of the members found themselves at odds with their Board of directors. The disagreement was in the main over the way in which the members felt that the Board had taken to itself responsibility for publishing and reporting the daily prices; it was not considered that the Board was closely enough in touch with the market for its members to be properly qualified for this task.

In consequence of this and other matters in issue, the members of the exchange met in January 1881 and resolved to set up a Committee of Subscribers which would be elected annually on a popular vote and which would be responsible for forwarding the interests of the membership at large. The first election was duly held in March of that year and the first Committee assumed office on April 25. Since then, the tradition of Committee elections in March and the new body taking office on April 25 has always been observed.

The Committee now functions

Contract

The ABC of a terminal market is that it is a forum where futures are traded, but where eventual delivery of the goods is also possible. This entails the amalgamation of the requirements for each into a contract providing for a standard lot of material of as nearly as possible standard quality to be bought and sold forward—delivery also to be implicit on standard terms.

At the outset there were two contracts—for Chile bar copper and for Straits tin. The maximum forward trading period was set early on at three months; this being the average voyage time from Chile via the Horn and from the Malay Straits via the Cape of Good Hope. This period still obtains, and it is amusing to note that with all the refinements of technology the voyage time to-day is not all that different.

Copper and tin proved not too difficult to pin down as to quality. Once instituted, in 1888, the standard copper contract survived with upward changes in purity requirements right up to 1963. In that year three contracts were substituted, of which two—electro wirebars and cathodes—are still used. The third, for fire-refined copper, ceased to be traded in the Ring in 1968, though it continues to be priceable at a set discount below electro.

The tin contract proved just as durable—and this in a metal more than usually subject to political and other vicissitudes. After crystallising as such in 1912, the standard contract remained largely unaltered—notwithstanding the disturbing effects of such outside influences as stockpile policies, some made for economic and others for strategic reasons. In 1974 the standard contract was joined by a high-grade contract for tin assaying not less than 99.85 per cent, and to date the two are traded concurrently in the same Ring.

Of lead and zinc the latter proved the more difficult to pin down as to quality, though both have for some years been successfully traded. Zinc in many ways has problems of its own in that a reasonably generous purity requirement (98 per cent zinc) has the odd side-effect of admitting as good LME deliveries various grades which, although of higher purity can in fact be less attractive to users with certain applications in mind. It could well be that some form of high-grade zinc contract would be a welcome addition to the market's range, and for some time after their introduction to the market, the lead and zinc contracts followed different paths from of foreign exchange restrictions.

CONTINUED ON NEXT PAGE

مكتبة الامارات

LONDON METAL EXCHANGE III

Inside the dealing room to-day

ENDING THE London Metal Exchange is the first problem someone who wants to see internationally important market in operation. Most London taxi drivers will look blank if asked to shake their heads if asked to go to the Exchange; the same is also likely if told the Exchange address is in Leadenhall Market should the trick, but finding the change is still a major exercise even after threading past meat and produce stores in search for Whittington Lane, which is distinguished first sight mainly by a lurid magazine shop and specialising in the luncheon trade.

The Exchange building is asked only by a discreet sign at the door, which gives little indication that a few yards away millions of pounds are being dealt daily. Casual visitors are not encouraged, unlike the "soft" (non-metal) commodity markets which have built-in public galleries, and security reasons have made entry more difficult. Visitors to the Exchange either have to be guests of member companies or officials, or bear the considerable cost of being an associate member.

Once inside it becomes obvious why traders on the Exchange are described as ring-dealing members. The trading floor is dominated by a big circle of four large curved pew-type benches, comprising nearly two-thirds of the 40 seats available on the Exchange where the ring-dealing members sit either stichful and taut with excitement during busy periods or muddled with bored expressions, during inactive periods.

The ring is dominated by a large flat copper bowl in the middle, which turns out to be a mundane ashtray. Above, behind the rostrum, where the settlement prices are solemnly read out every trading day at the end of the second morning ring-trading session, are the chemical symbols of the five metals traded—copper, tin, lead, zinc and silver—lit up individually to show which metal is actually being traded below. A large block of numbers, which lights up on occasions, may also baffle the visitor on a first occasion who is seeking some way of identifying price trends from the market jargon exchanged between members. In fact the block of numbers are merely a list of the telephone box numbers, which light up when there is an unanswered incoming call.

Sessions

Trading sessions are concentrated into short bursts of five minutes for each of the metals, signified by the ringing of a bell at the end of the session, when no further bids or offers can be made. This means that a busy trading session in copper, for example, amounts to a climax of activity with traders frantically trying to conclude their business just before the bell. It then abruptly ends to be followed by, possibly, a quiet trading session in another metal where there is little interest or activity and traders and helpers leave the ring to the bored few swopping desultory bids.

Behind the benches are the clerks and helpers, noting down details of the contracts agreed between the traders across the

ring and rushing back and forth to the company phone box, with direct lines to the office, in order to provide a commentary on what is going on and take in orders or instructions. For those unfortunate companies whose telephone boxes are far away from their ring seat, because of restricted room, the clerks often use "tie line" methods to their colleagues on the telephones to keep them in touch with what is going on. The Exchange committee has been somewhat unhappy about this since the similarity with bookmakers on a racecourse is inescapable and tends to reinforce the image of a gambling casino—a term which critics have used frequently over the years to ruffle the feathers of the Exchange members.

Potential criticism about lack of equal opportunities has been forestalled recently by the introduction of the first female trading clerk to be working on the ring, although so far the Exchange has not thought it necessary to introduce extra facilities for her comfort. There has been no written rule actually banning women from the Exchange; they just have not been assigned there in what is still very much a man's world—the number of women at the Exchange's annual dinner can be counted on one hand from the 2,000 or so guests present. But it appears that another City exclusive male bastion has quietly bowed to modern pressures.

But past traditions remain. Membership of the Exchange is jealously guarded by the Board, which is responsible as landlords for the day-to-day running of the Exchange, and the annually elected management committee which decides on all

matters affecting trading on the ring—a legacy of the time when the Board refused to introduce some reforms required by a majority of the member companies. There are also the "kerb" trading sessions, distinguished from the "ring" dealing sessions. The description "kerb" dates back to the time when the traders used to congregate outside the building to continue trading, much to the annoyance of passers-by and the traffic. So they were moved back into the building for these so-called informal sessions which follow the ring-dealing periods. However one rule remains—a fine of £50 for any trader in the Exchange building after 5 p.m.

The official closing prices of the Exchange are the settlement prices on which most supply contracts are based, at the end of the second morning ring at 1:30 p.m. This is because of the practical impossibility of sorting out contracts and possible disputes after the end of the afternoon session—the "unofficial close"—in time for members to get home at a reasonable hour. The daily exchange of warrants each morning, as delivery dates fall due, already makes for a late start, with first trading session at 12.00 noon, meaning a late lunch prior to traders getting back for the opening of the New York metal markets.

Trading etiquette on the ring is very strict. No smoking is permitted during ring-dealing periods (although this is relaxed during the "kerb" sessions); swearing is fined; and traders are not supposed to direct their offers to buy or sell direct to any other member but "across" the ring so that everyone has a fair chance to respond. The first acceptance is obliged to take at least one lot, but can then farm the rest out to anyone else interested. The LME encourages the principals, or at least senior executives of the member companies, to trade on the ring. Although this is no longer carried out by many companies, whose senior executives prefer to stay back in the offices, there are a considerable number of senior dealers still trading on the ring, in sharp contrast to the "soft" commodity markets where the traders tend to be much younger, rowdier, and rely more on instructions from the office. Quick thinking, especially in calculating figures, is the main attribute of a good "floor" trader on any market, but on the Metal Exchange "ring" a loud, clear, voice and confident manner is just as important, since being distinguished above the uproar in a busy trading period can make all the difference in seizing the best market opportunities.

Strange

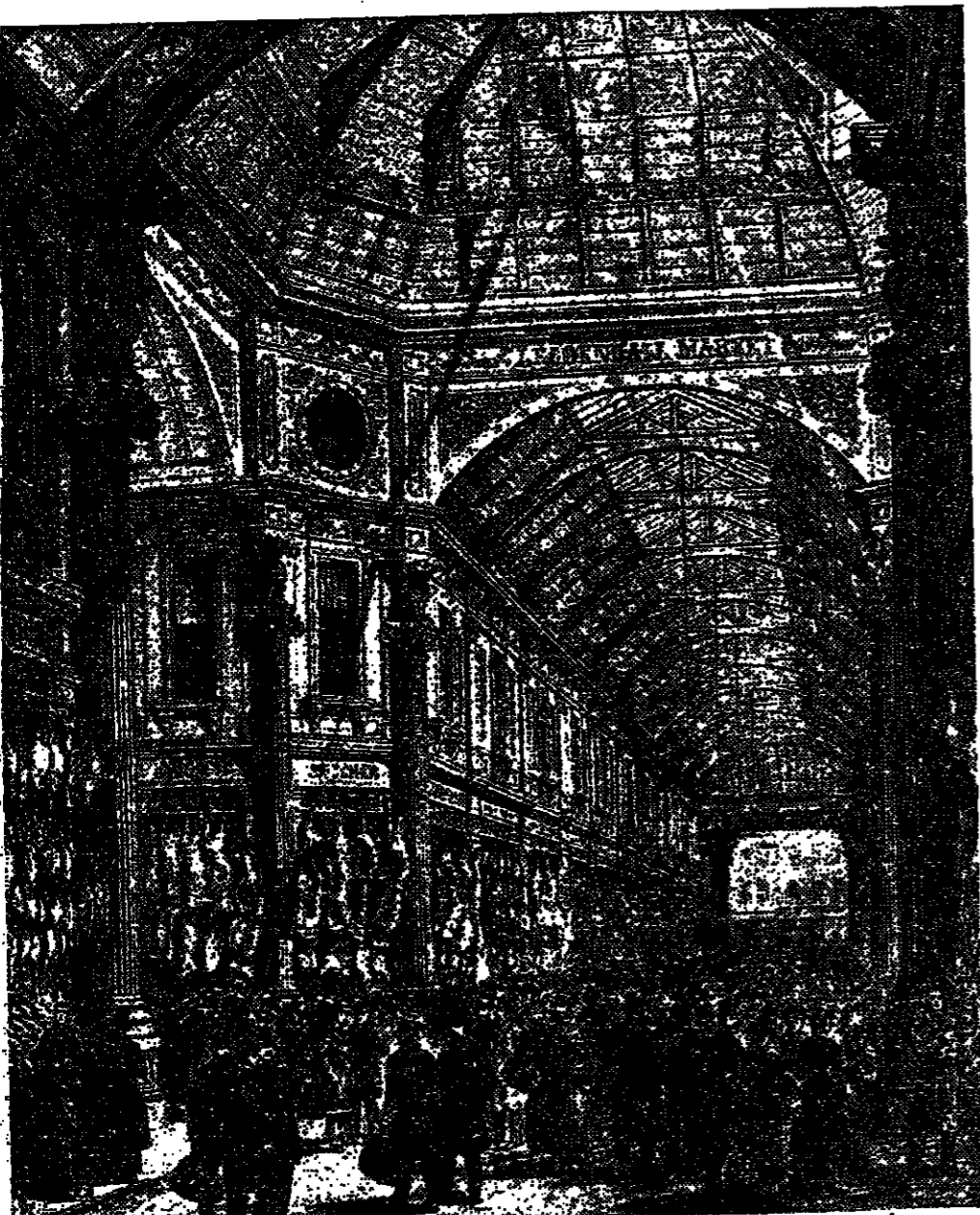
It seems at first a strange and peculiar way to spend the day, or a lifetime, earning a living, shouting across an empty circle at a group of men doing exactly the same. It seems even stranger that the prices of vital raw materials should be decided in this apparently haphazard manner especially during hectic periods of activity that often break out when the noise of voices all shouting together seemingly makes it impossible for anyone to understand what is going on, let alone be committing themselves to transactions worth many millions of pounds each day.

But the traders claim that the alternatives would not work as well, with computers, for example, being unable to distinguish between important influential buying or selling from a particular quarter, as well as not having the personal touch in spotting trading opportunities. In any event trading on the London Metal Exchange is positively civilised even at the busiest of times when compared with the rough and tumble of other commodity markets, particularly the all-powerful Chicago Board of Trade grain futures pits, where tempers get frayed under the intense pressure and blows, kicks and fights in an effort to gain attention are part of the normal day's trading pattern.

In fact the importance of the LME ring is gradually diminishing, with a large proportion of the total business now being done in "before" and "after" hours inter-office trading by telephone and telex between metal traders. Nevertheless ring dealing sessions publicly express to anyone interested the prevailing prices of metals decided by a consensus of the world's buyers and sellers meeting at one central point. So far it is the best method found of "free" market trading and has thus survived and prospered despite its apparent out of date existence.

R. Gibson Jarvie
Executive Secretary,
London Metal Exchange

John Edwards



Leadenhall Market in 1882, which was the year the London Metal Exchange moved in.

Copper

CONTINUED FROM PREVIOUS PAGE

ut here happily the Committee and the Bank of England were not slow to get together and work out the "Metals Scheme" which has taken away many of the very real problems which could well have beset members and their clients who might and probably would) have sought in London for sterling metal which was located in Rotterdam or Hamburg.

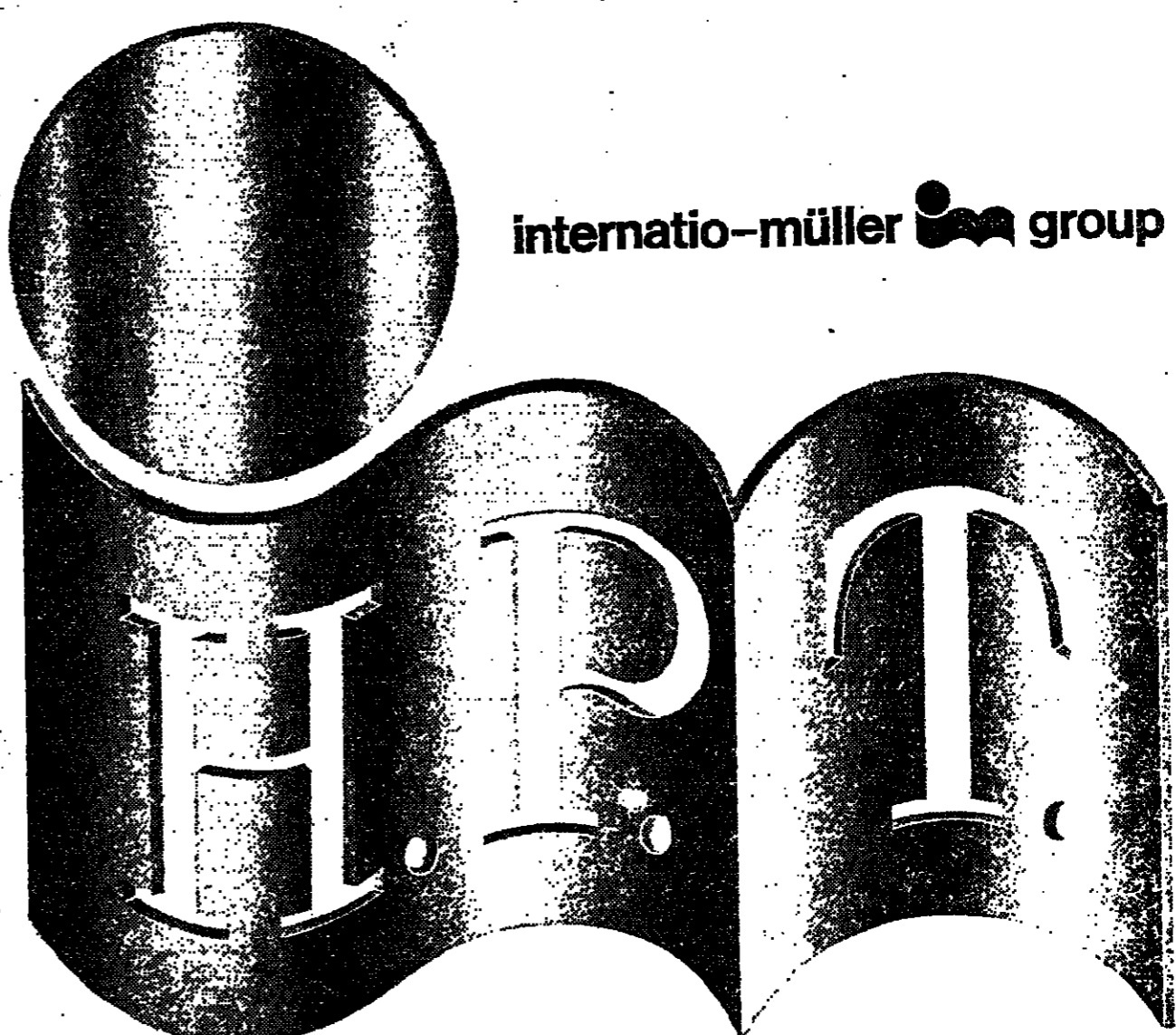
The scheme originated shortly after the reintroduction of the market in 1949, and has resulted in a regular liaison between the Bank and the Committee of the LME with quarterly meetings at formal level interspersed with more frequent informal and usually constructive encounters. This is of course a relationship of which the LME is both proud and

all in all—that both the basic philosophy and the detailed elements of the exchange have survived for so long with so little redesign or restructuring. In terms of trade, politics, technology and economics the past hundred years have after all been eventful ones. They have brought great changes and on occasion vast disturbances of the arena of international commerce. That the LME has weathered all this with so little apparent difficulty is probably because by its nature it is a highly flexible organism and capable of almost indefinite adaptation to changing circumstances.

If there are any qualms about the coming decades they would be in connexion with this very matter of rigidity. Intervention is a potentially dangerous state of mind if allowed to be carried too far, and in a

world as specialised as that of the commodity markets it is one which is all too easily engendered.

For the LME, as for all the international markets of its kind (and there are not very many), continuing health is to a very great extent a question of willingness to adapt and to modify attitudes as well as procedures: as requirements of international trade themselves change. Any desire to bend these requirements and fit them into an established protocol has to be resisted firmly. No doubt, the future generation of LME management is even now having this instinct for adaptability firmly implanted as they go about their business on this historically successful and healthy market.



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LONDON METAL EXCHANGE IV

Unique among the world's markets

THE LONDON METAL Exchange is neither one thing nor another. It is not a proper commodity futures market since trading is confined to only three months ahead for the base metals and seven months for silver. Nor is it particularly significant as a physical market since the vast proportion of the trade in the metals quoted—copper, tin, lead, zinc and silver—is done by direct supply contracts between producers and consumers (fabricators). Yet the LME daily quotations are the basis used for deciding the price of copper, tin and lead charged by producers outside the North American continent and are an important influence in base metal pricing throughout the world. This pre-eminent role has been built up during the past 100 years on a strange formula that makes the London Metal Exchange unique among world commodity markets.

For a start trading on the Exchange is on a principals' contract—in other words every transaction concluded is between the individual ring-dealing member companies, who each bear the financial responsibility for honouring the contract terms. It does not go through a central clearing house as with other futures markets, although there is some central sorting out of warrants and payments due each day to avoid unnecessary duplication of metal and cash deliveries among members. Nevertheless each company is individually responsible for meeting commitments across the ring, using a common LME standard contract which has another unusual feature—the deliberate exclusion of any force majeure clause which is normally included in any supply contract to allow for some unforeseen development, beyond the control of the supplier, to be given as a reason for non-delivery. Under the LME contract the commitment to supply must be honoured whatever the circumstances.

is claimed that in this way trade hedging and use of the market is actively encouraged by reducing the cost involved to a minimum. If a clearing house system was introduced this would inevitably involve the payment of a margin to the clearing house which most member companies, if not all, would be forced to pass on to the trade client, thus effectively putting up the cost of trade hedging business.

Margin

Although other futures markets with clearing house systems, like cocoa and coffee, include large trade hedging participation, some LME members claim that fabricators would simply stop or greatly reduce their trade business if faced with the large sums involved in putting up margins. On the other hand, Exchange traders are effectively giving the trade users of the market three months credit and this basically prevents them from extending the trading contract facilities available to a longer time ahead, say 13 months, which is often needed for hedging purposes.

Business beyond three months can be done with individual member companies, who simply add on the interest rate calculated on a monthly basis to arrive at the cost of the metal to be bought, but "paper" hedging transactions have at present to be rolled forward every three months—an expensive, time-wasting exercise that does not provide a true hedge for anyone wishing to make price commitments for a longer period ahead than three months. The silver contract of seven months ahead is purely a compromise recognition of the small percentage of trade business in that particular market and the longer periods ahead offered by the bigger, better established, silver markets both in London (operated by the bullion brokers) and in New York and Chicago.

safety of a clearing house system.

But so far members have only agreed in principle to a compromise formula, of a self-monitoring scheme, whose details are yet to be worked out properly. The intention is to have a system that gives prior warning of any potentially dangerous financial situation building up so that evasive action can be taken in time. This may mean raising the guarantees provided by the member companies to a much higher, common, level of say £5m, which at present is only provided by some new members and not by older member companies whose guarantees were set at a much lower level. It may also mean raising contributions to the existing compensation fund, which pays within its resources, compensation for any losses suffered by ring-dealing members trading with each other but does not compensate outside clients for any losses incurred if a ring member is unable to meet its commitments. But these reforms are as far as some members wish to go, since they consider the principals contract to be vital to the success of the Exchange in contrast to a clearing house, which would put it on a par with other futures markets, like the New York copper and silver market (known as Comex) whose influence on the rest of the world is far less although it has a greater volume of turnover annually mainly resulting from the big flow of speculative funds that pour into all the U.S. commodity markets.

In recent years there is no denying that speculative involvement has also grown on the London Metal Exchange reflecting the general world uncertainty about inflation, currency instability and concern about raw material resources triggered off the oil crisis.

But it can be claimed that many aspects of this increased speculative activity is beneficial to trade interests, particularly in supplying the extra funds required to carry the big surplus stocks that have built up recently especially for copper.

The market mechanism is so geared that in times of surplus the rate of contango (discount of the cash price compared with the forward three months quotation) represents competitive return compared with other interest rates, even if the transaction is somewhat more complicated. It involves buying the actual metal at the spot price, receiving in return the negotiable warehouse warrants, and selling an equivalent amount forward at the higher three months price.

The warrants are then delivered against the sale in three months time. The locked-in profit—the difference between the cash and three months—is the "interest" rate, less the costs involved in storing and insuring the metal held in the warehouse during the interim period, plus the brokers' commission. This type of investment has become increasingly popular with banks and financial institutions in recent years but will of course only continue while the over-supply situation ensures a contango offering rate of interest that on occasions can be much higher than other competitive investments.

The Exchange has also attracted a whole new type of so-called long-term investment from speculators disillusioned with the instability of "paper" money seeking safety in raw materials, like metals, whose prices must eventually rise in line with increasing costs of production world wide as the supply of natural resources diminishes or at least becomes much more difficult to find and exploit.

It is estimated that without this extra inflow of funds copper prices, for example, could have been at least £100 a tonne lower than present levels while producers would also have been faced with a greatly increased burden in carrying extra stocks. While this may have benefited consumers in the short term, it could have had serious repercussions for future supply prospects.

Triumphed

There have been numerous attempts to find methods of stabilising the price of base metals to a greater degree compared with the daily fluctuations on the Metal Exchange that bring not only considerable uncertainty for producers especially in the developing countries relying on metal exports, but also for consumers having to plan their production costs well ahead. But so far the Metal Exchange price mechanism, with all its faults has triumphed. In North America, producer prices have been imposed by the leading companies, who are also fabricators and therefore to a significant share of their output. Nevertheless they have to move in line with the LME quotations to remain competitive, especially when there is a surplus situation.

Western world zinc producers have also introduced in recent years a European producer price to cover the bulk of the trading outside the U.S. But changes in exchange rates and a gross surplus of supplies, have recently made this price something of a farce and it survives, for the moment, virtually in nominal form.

Tin values have been controlled to an extent by the International Tin Agreement, except above the "ceiling" level. But efforts to control copper and lead prices have always failed, partly because of the large percentage of uncontrollable scrap supplies and partly because there are too many powerful market forces at work, especially in the case of copper.

Physical

The exclusion of a force majeure clause is in keeping with the Exchange's unusually strong links with actual physical trading of metals. Normally commodity futures markets comprises mainly "paper" transactions only, with purchases and sales cancelling each other out before the date of delivery falls due, and only a very small percentage of the actual commodity is traded through the market. But on the Exchange the percentage of physical transactions is very much greater, although still dwarfed by the "paper" futures business. The Exchange is a residual market of last resort, for both producers and consumers; a place where surplus supplies can be dumped in times of plenty and where extra supplies are sought in times of scarcity. The amount of metal stocks held in the LME appointed warehouses, scattered throughout Britain and Western Europe, has a definite influence on market price trends since, although small in total world volume terms, the stocks do represent that final fraction that makes all the difference between a situation of shortage or surplus.

The links between the Exchange and the physical trade are even stronger. Unlike any other futures market, business within the three months ahead quoted can be specified for a particular trading day and there can be considerable differences between the supply availability from day to day that can be ironed out by borrowing or lending according to the day's requirements.

This daily trading enables a hedging transaction to be fixed far more closely to the physical date of delivery, providing greater protection against price fluctuations, and also enables fabricators to use a special "back pricing" formula incorporated in the direct supply contracts with producers whereby the fabricator has a wider choice of when to price his supplies received apart from the actual date of delivery. On occasions he can decide to price the supplies received on the day before delivery if the market has risen in the meantime. This enables the fabricators in turn to be able to offer a firm price to his customers without risking a serious loss.

Service to the trade by the LME members is taken even further in that the bulk of trade clients do not have to put up margin or deposit for forward transactions despite the financial commitment involved. In turn the members themselves do not charge each other deposits on future business. But since the end of the 19th century both the mining industry and the industries it feeds member firms may represent a financial risk, however small. It inevitably more complicated in

THE STANDARD retort offered to those who criticise the LME, charging that the volatility of its price movements makes it a questionable medium for the pricing of vital commodities, is simply that nothing better has been devised. It is a negative but effective argument, at least for the immediate future.

Yet there are trends both in the pattern of international trade and in the way Governments and producers see that pattern which are inimical to the continuation of the LME in its present form, that is to say as a barometer of supply and demand providing a reference on which minerals contracts, particularly for copper, may be based.

In the face of these trends it may even be seen as amazing that the LME has lasted as long as it has. Its early evolution was in response to the needs of a free enterprise system working on a relatively narrow base. It provided a forum in which the play of market forces could be seen to be working, easing the problems of distribution between a relatively small number of mines and a relatively small number of consumers.

But since the end of the 19th century both the mining industry and the industries it feeds member firms may represent a financial risk, however small. It inevitably more complicated in

organisation. The result has been a diffusion of ownership, and a break in the chain which linked an industry in a major industrialised country like Britain with a mine in what was probably an economically dependent country.

In the developing countries now, the governments are not solely concerned with providing raw materials in faraway places and adapting the pattern of their production to the movements of the market. They seek internal economic and social benefits which make them less responsive to market forces than the 19th century mine owner might have been.

Role

Thus, on any reckoning of the supply-demand situation for copper in 1974-75 and the effect this had on LME prices, it would have been better for the Zambian mines to stop production. Yet, given the role of the mines in the economic and social fabric of Zambia, this was clearly an impossible solution. Indeed the role of mineral exports in the economic development of the copper producing countries like Zambia, Zaire, Chile and Peru has led their collective organisation, CIPEC, to seek a means of rolling the market.

While it is true that this search has so far had scant success, the fact that it is taking place serves notice that producers are not prepared to accept the LME as a price medium when the prices it throws up are insufficient to meet the wider demands of internal policies being worked out domestically. The old free enterprise system has been diluted.

On the face of it this looks like a clash between governments and the market, but even the independent mine companies have reservations about the LME, at least when prices are low. "This anachronistic and volatile method of pricing should have been relegated many decades ago to an economic museum," said Mr. J. Vulliamy, the then vice-chairman of the American group, Amax, in 1974.

In the longer term, the development of a wide industrial base in producing countries outside the U.S., Canada and Australia, would in any case tend to diminish the pricing role of the LME because a greater degree of processing could take place in the country of origin. As the Canadian consultant

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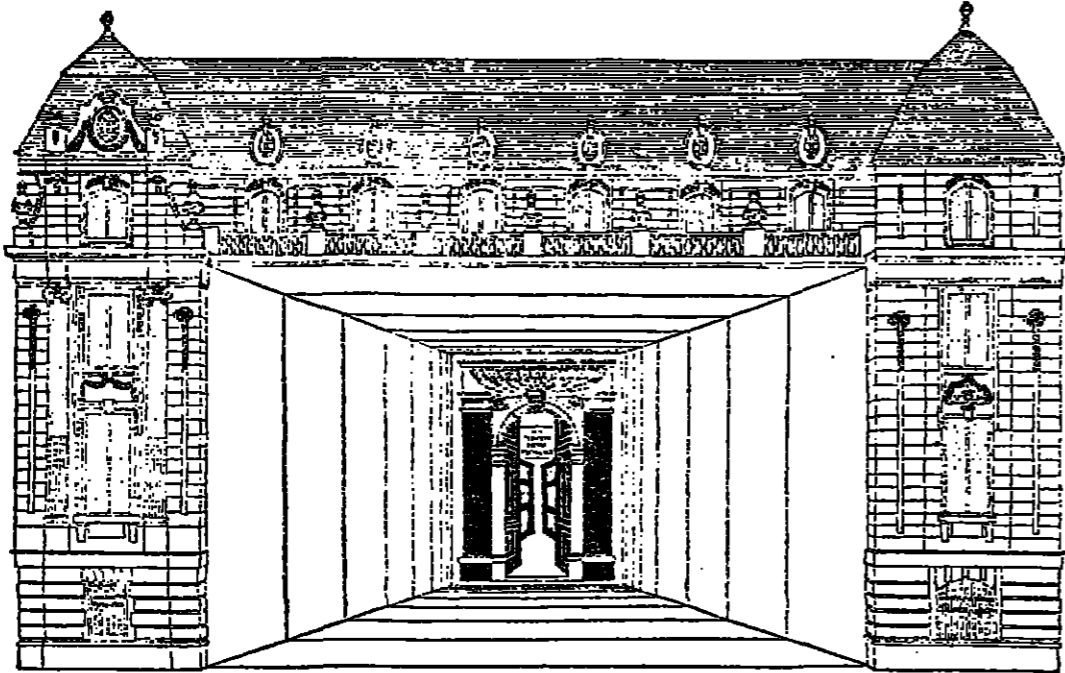
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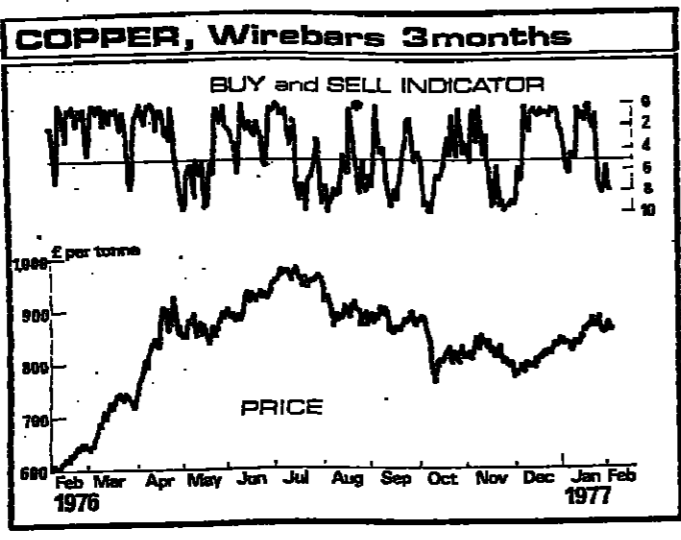


معلومات الاصل

LONDON METAL EXCHANGE V

Forecasting price movements

CASTING METAL price should, in theory, be derivably easier than in the commodity markets, where predictable weather conditions can literally overnight supply predictions by using severe crop damage, in its production trends are well signposted with prior ledge of mine output cap- planned many years ahead regular reporting by the 23 companies on how they performed and are likely reform in order to keep their shareholders or supporting financial institutions in the picture. There are, of course, mine strikes, and more commonly these, but these can be written an historical working capa- with some degree of accuracy, except for some major disturbances such as when the non-ferrous metal workers' contracts expire every two years—as they do this summer. But on the whole it is too difficult to assess total production capacity in the world at least and make a forecast based on previous trends for strikes and other industrial production setbacks, imports or exports by the communist bloc countries and copper, lead and silver the more likely to be recovered in the form of scrap, bearing in mind available refining capacity. However, it is on the demand that metals forecasting has to go awry. Consumption of metals, although vital materials, is more in- creased than, say, food commodities by the economic state of the world and individual countries. Although it can be stated that over a period and for a particular metal likely to grow by a certain percentage each year, based on historical trends, the annual growth can vary widely even if using the predicted pattern for a span of years. There are kinds of variables. Reaction to the price of the metal in each country, distorted nowadays by changes in exchange rates; technological developments bringing about substitution or a decrease in usage of the metal; and, of course, the general economic health of the world and individual countries, that controls demand for end-products using metals and interest rates, surging or discouraging summer stockholding. Some experts argue that in fact there is little basic change in metal consumption, except in the case of new technology, but only in demand trends significantly. Be that as it may, any metal demand forecasting has to be based primarily on the likely



economic state of the world and the prospects for the industries using the metals, which involves forecasting on a much wider scale. Added in to complicate the whole issue are the generally unpredictable shifts in demand from behind the iron and bamboo curtains, often motivated more by political reasons than real consumption needs, and the almost equally unpredictable release or other wise of metals built up in the giant U.S. strategic stockpile in the 1950s.

Methods

The mining companies, and independent companies like Commodities Research Unit and Brook Hunt and Associates, have built up their own forecasting methods to help make decisions about whether or not to go ahead with proposed production expansion plans due to come into fruition many years ahead after the expenditure of vast sums of money, supplied by often unwise financial institutions. But these studies cost money and are often none too accurate for short-term market trends which are usually of greatest interest to users of the London Metal Exchange. It is not much good, for example, to be told that the price of copper will be 10 per cent higher in a year from now—and for the forecast to be proved right—during that 12 months the price dips sharply before recovering as predicted as the buyer could well have been wiped out in the price decline period. So in recent years metal market traders have been increasingly influenced by the use of charts, based on past price trends. It is claimed that charts take into account all the market factors, known or hidden, by

tracking price behaviour; hence the famous statement by a "pure" chartist: "Don't confuse me with the facts."

Coverage

But over the years they have shown increasing sophistication, not only in presentation but also in interpretation and coverage. Not only price trends are shown nowadays, but also the highs and lows of the day's trading; the volume of turnover; the "open" position (unmatched buyers or sellers); and the trend line. There are further sophistications too. Chart Analysis, for example, has an "indicator" showing whether the market is either overbought or oversold which may be vitally important in deciding whether to go in or not despite price indications. A recent innovation by Eurocharts is its timing indicator based on scale from one to ten that gives buy and sell signals of fluctuating strength depending how far it is away from the median point of five. This is an easy-to-follow forecasting method, backed up by the range of chartist information available on a daily, weekly or monthly basis. Eurocharts are one of the increasing band of commodity forecasters using computers to assess the many variables and they have recently linked up with Econintel, the economic forecasting group, to use the joint resources of their data banks on the economic outlook and commodity trends.

Computer forecasts are also being increasingly used for the so-called "managed funds," where the system is king and investment purely based on what the computer, working on a programmed pattern, says. Selling or buying by "computer funds," with huge resources at their disposal, is becoming an increasingly important influence in the commodity markets generally although much more widely used in the U.S. than in London. But past experience has shown that however confident and sophisticated forecasting methods become, the metal markets—and copper in particular—have regularly moved in totally unpredictable fashion leaving the pundits with red faces and a band of unhappy followers.

J.E.



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Pressures CONTINUED FROM PREVIOUS PAGE

draw J. Freyman, once wrote the IMF-World Bank publication, Finance and Development, long-term objective is that the minerals sector should provide inputs into the economy, thereby stimulating forward integration into the fabricating process and backward integration into service and manufacturing industries.

Tightening

Meanwhile the tightening relationship between producers and consumers is likely to have more profound effect on deciding whether the LME will remain central to the activity of the industry. The distinction between the two has become progressively more blurred. Partly this is a result of a natural interdependence, but finance is a significant factor. The cost of developing new resources has escalated to such an extent that producers have been forced to seek forms of financing outside the funds for investment they can generate themselves. One response to this situation has been to sign long-term contracts with potential customers, who also might take equity stake in the venture. At the same time it is coming the habit for governments outside the U.S. and Africa to seek participation either through equity stakes or royalty and tax payments in new mining ventures. This trend, added to the consumer's link with the producer, rates a concentration of power through coalescence of interests which could make the role of the LME peripheral. Concentrations of a different kind have already attracted attention of the vice-chairman of the LME Committee, Mr.

I. E. J. Foster. His concern, voiced during a recent speech in New York, was the polarisation of the metals world into large groupings: producers and fabricators, the Western democracies and Comecon, the rich and the poor.

Users of the LME were coalescing into larger groups to the detriment of independent merchants and brokers. "The independents give a bit of very necessary ginger to a market which might otherwise either go all one way, or die of sheer paralysis if producers and consumers were to match each other evenly," Mr. Foster said.

While it is doubtful that producers and consumers could ever match each other's needs with exact precision, it is none the less the case that their joint efforts can and do counteract the market mechanism to mutual benefit. At this stage of the LME is affected only by the International Tin Agreement, but international moves are afoot through the United Nations Conference on Trade and Development to make copper market movements more controlled.

The existence of the International Tin Council's buffer range of prices to govern the trading of the buffer stock with Africa to seek participation either through equity stakes or royalty and tax payments in new mining ventures. This trend, added to the consumer's link with the producer, rates a concentration of power through coalescence of interests which could make the role of the LME peripheral. Concentrations of a different kind have already attracted attention of the vice-chairman of the LME Committee, Mr.

active dealings." He argues: "While no action is taken the ability of the International Tin Council to stabilise prices through the Metal Exchange will always be limited."

This sort of limitation has not prevented international discussions from evolving the notion, under the auspices of UNCTAD, of a similar agreement for copper. The discussions have come unstuck, however, on the degree of finance needed, where to find that finance and the necessary co-operation of the consumers. Indeed, one of the weaknesses of the tin buffer stock has been its shortage both of cash and material.

Reduced

The point is that pressures are building up strongly to influence the pricing function of the LME. The pressures have never been sufficiently coordinated to endanger the existence of the LME. While it is true that the existence of a European producer price for zinc has reduced the role of that particular market, there is nothing to suggest that taking a similar move for copper would be effective.

In the first place the existence of a strong scrap market—indeed, some 40 per cent of copper produced comes from scrap—makes it difficult to calculate a producer price divorced from present conditions. In the second place the copper producers, embracing a wide variety of production costs, have found it hard to arrange its affairs in such a way as to minimise the impact on prices of "massive specu-

ducers, the then Rhodesian Selection Trust and Union Minière, to "announce" prices at which they would sell. But they were forced to revert to the LME mechanism.

These considerations are vital because if prices are not to be established by the market, they can only be established by producers. It is true that Government - to - Government negotiations can arrange bulk-buying contracts as was the case in World War II, but even then the prices fixed were related to the LME levels in 1939.

What seems likely to happen over the coming years is that the interplay of the different historical trends will squeeze the LME, limiting its freedom of movement. But as long as it remains linked, even in marginal quantities, to the physical distribution of metal and its prices reflect the general business atmosphere, currency changes and so on, there seems no reason why its present pricing role should not continue.

The LME's great strength is that it is neutral, because it is both independent and international. Speaking in its defence in October 1974, at a time when it had been under severe attack for the volatility of its price movements, the LME Committee chairman, Mr. Fred Wolf said, "Those who continue to criticise do not offer an alternative solution.

"A machine such as the LME is only as effective as the use made of it. Some of those in the trade stand aside virtuously wringing their hands instead of using the very instrument that can be most effective to them. They could make the Exchange an even more realistic machine."

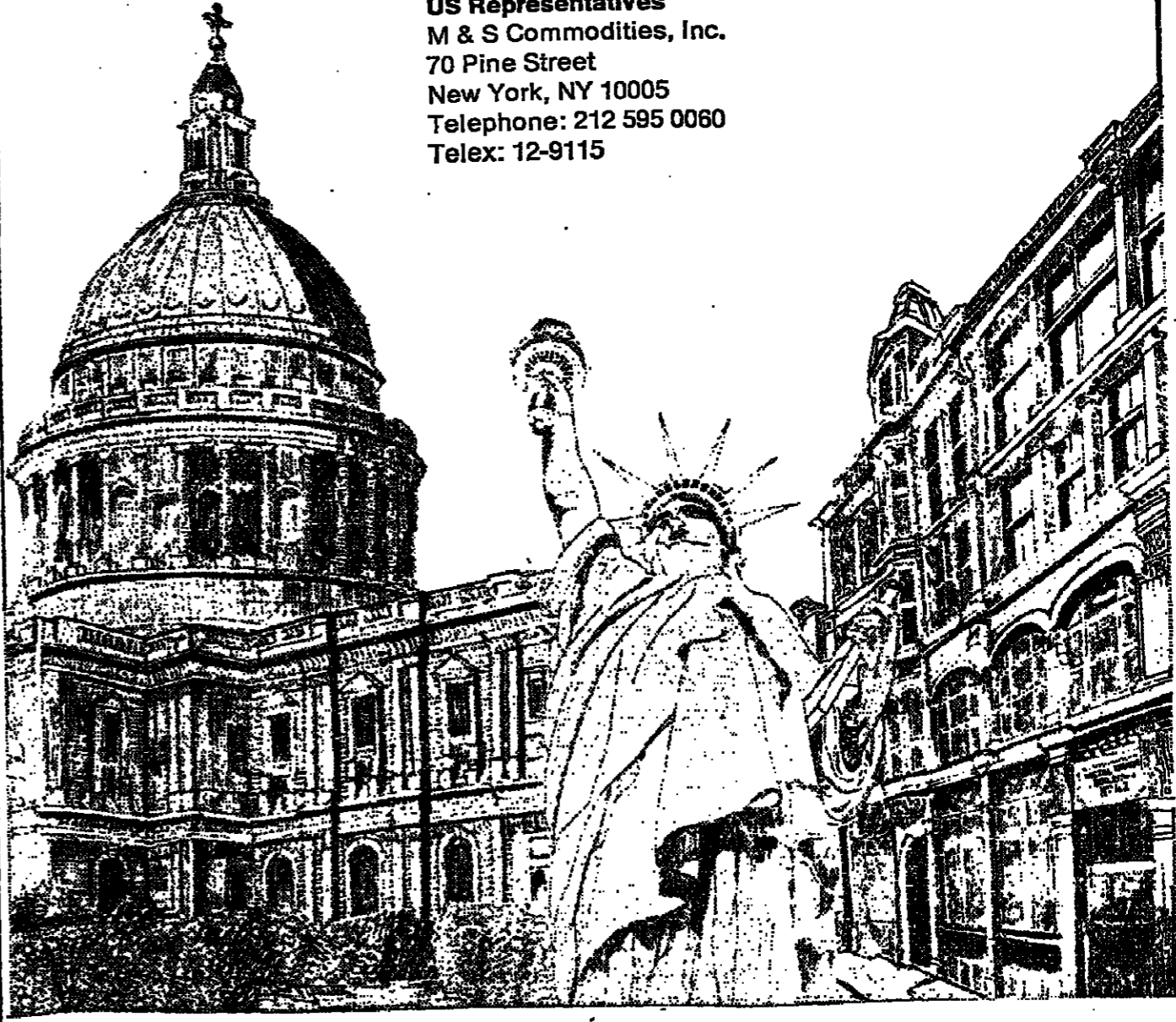
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An established place in the City

ALTHOUGH THERE have been considerable changes in the international pattern of trade since the early decades of this century, and other markets have been established in places as far distant as Penang and New York, the LME has still managed to forge a distinct identity and to occupy a pivotal place in world metals trading. One of the main reasons for this has been its place within the City of London.

The LME and the City in fact grew together. Trading facilities and the financial markets are interdependent. "The financial resources available to the terminal markets are obviously of considerable importance to their success, and it is in this respect that their linkages with the City of London are of vital importance," wrote Professor Graham Rees.

Over the last century the LME has drawn business to the City financial markets and the LME has provided an outlet for certain types of City investment. They have fed off each other. The result has been that the LME makes a considerable but unspecified contribution to the invisible earnings of the City. LME earnings are absorbed by the Committee of Invisible Exports under the general title of Merchants, which in 1974 provided 15 per cent of the City's income at £134m.

In 1975 the Merchants total was £124m, and the Committee's chairman Sir Francis Sandilands said last December that 1976 earnings should be "well in excess of £100m." At present the Committee and the Bank of England are conducting a survey which will lead to a greater precision in the statistics and specify more exactly the contribution of the LME.

The LME is, of course, part of the Federation of Commodity Associations and it is through the Federation that it is represented on the City's liaison body, the Capital Markets Com-

mittee. But its most important single relationship in the City is its working link with the Bank of England.

Considered over a long perspective this link is recent. Before the Second World War the Bank showed little interest. It was only in the post-war years as normal trading gradually resumed that the link was made, essentially in the early stages because of the immediate demands of national economic policy.

The essence of the relationship is the principle of self-regulation, and in this respect the Bank is simply following, and the LME is accepting, the code that governs official supervision of the City financial and trading markets.

The LME is jealous of its independence, feeling that it needs freedom to reflect the changing pattern of market forces if it is to be regarded as an international pricing medium. The Bank for its part, is keen that the LME should continue to play this role, mindful of the benefits that accrue in invisible earnings.

The Bank is, however, concerned that the LME should be well-run and that its financial viability should be above question. There would be an angry official frown if there should be, for example, a repetition in London of the sort of dealings

which led to the collapse of the Paris sugar market.

The main sanction the Bank has over the members of the LME is its power to withdraw exemptions from exchange control regulations. This is, indeed, the Bank's only statutory right over the LME, but it is a right which goes to the root of metals trading.

Freedom

The freedom from exchange control restrictions allows the members to buy metals anywhere in the world and to pay for them through an external account in either sterling or a foreign currency. At the same time there is no restriction regarding the sale of the metals.

The concessions were first granted in 1949, when the LME tin market reopened and when the Government began to phase out its bulk buying policies and allow a partial return to the market economy. There could be no trading without the freedom to move currencies around the world.

In return the LME members had to provide the Bank with a monthly account of their foreign exchange positions in as much as they affected LME dealings. These retrospective checks by the Bank nevertheless gave the authorities the opportunity to see when what might

be dangerous positions were building up; when, for example, an LME member might be holding stocks abroad which were clearly in excess of the normal requirements of clients.

The important point for the self-regulation of the LME, however, and an instance of the delicate relationship between the LME and the Bank, was that the LME Committee provided the Bank with the names of the companies to whom the exchange control concessions should be made.

These arrangements were embodied in a Memorandum of Understanding, which also provided for the Bank and the LME Committee to meet formally four times a year to discuss matters of mutual interest. In fact, a Bank official visits the LME each Tuesday and informal contacts are extensive.

In the event of the Bank seeing that dangerous speculative positions have been built up it has the right to draw this to the attention of the LME and suggest that action should be taken. It is generally left to the LME Committee to find its own solutions.

In 1953, for example, the Bank asked the LME Committee to request members to be very careful about the tin contracts into which they were entering because of the practice of using exchange rate differentials to buy tin in London and Singapore and resell it in New York to register currency gains.

Since 1973-74, when the surge in commodity prices generally excited a deal of unfavourable comment about the role of the markets, and especially some of the speculative activities, there is some evidence that the Bank has been anxious to extend its supervisory role.

In response to the price boom the Memorandum of Understanding was widened so that the Bank could receive a monthly assessment of the balance between trade and non-trade positions on the market. This is, of necessity, vague

because of the difficulty of disentangling the reasons behind each transaction. Nevertheless the system was built up gradually in 1975 and was seen to be working last year.

On May 13, 1976, the LME Committee told its members that they should not accept new trade business in zinc until further notice. The returns that the Bank had been receiving in March and April indicated that large speculative positions were being built up. It exercised its right to draw this to the attention of the LME Committee which in turn instituted the ban.

There was a fear at the time that this chain of events might herald an attempt by the Bank to cut down the level of speculative activity on the market that this might not be simply a corrective to a situation which appeared to be growing out of hand. But nothing has happened since last summer to suggest the Bank is thinking in terms of a crackdown on the LME, or, indeed, on other markets.

It now seems likely that a fundamental change in the Bank's relationship with the LME will have to await the findings of the inquiry into the City being staged by the Wilson Committee. In the meantime the Bank is doing its best to nudge the LME into making a number of internal changes.

Despite the guarantees financial standing which LME members have to provide, the existence of a fund to meet any market failures, the Bank is known to think that the existing trading system based on contracts between principals is inadequate. It would prefer a clearing house system along the lines adopted by the soft commodity traders, but is prepared to accept the essentially compromise proposal of a monitoring system to survey the building and unwinding of dealer positions.

Mining costs

METAL prices must rise. All that remains to be seen is when the major advance will get under way and how far it will go. The forces that are now at work could, if they remain unchecked, lead to a kind of alchemist's nightmare in soaring of development of a big low-base-metal prices by the end of the century.

Restricted metal supplies available only to the highest bidder would not only wreak havoc with world economies but also have a fearful social impact on a world in which metal is almost as vital as food to the survival of large populations. We must move quickly towards the development of the new era of mines which will supplement and eventually replace those now in existence.

But there is virtually no major new mining development going ahead at the moment.

This is not for the want of new deposits and, indeed, there are no fears that the earth's finite store of minerals is being unduly depleted. Just as vast areas have yet to be turned over to food production, so the mineral exploration teams have barely started to unlock the world's hidden mineral wealth. They have, however, found most of the more obvious mining "plums" of rich ore deposits in the more accessible parts of the world. Nowadays prospectors need to probe more and more into the remoter areas and this costs a great deal of money, especially when it is remembered that only one out of some 200 exploration prospects is likely to result in a viable mining proposition.

Furthermore, the nature of things is having to accept low-grade ore deposits which must be worked on a big scale if they are to be payable. Costly infrastructure also needs to be set up in the new mining areas and on top of all the traditional problems, the mining industry has also to overcome objections of the environmental lobby.

Another relatively new hazard to be faced is that of fluctuating exchange rates, which can be a burden as well as a bonus for international companies, especially when they have large loan commitments. Then there is the growing tendency among governments to milk mine earnings in good years and quietly overlook the producers' problem in the lean times.

Australia's copper-producing MIM Holdings, for example, recently pointed out that the cost of moving copper from its Queensland mine by rail over some 500 miles to the Townsville refinery had risen to the point where it was more than the cost of shipping the metal from Townsville to Europe. The Queensland mineral royalty, however, allows no compensa-

tion for higher costs of production.

Throughout the world, inflation has weighed heavily on the mining industry. The expectation of a copper price of, say 80 cents per lb., is now the least needed to justify the start of development of a big low-grade copper mine. In fact, the suspended Tenke-Fungurume venture in Zaire would want to see a higher price than this despite the fact that the deposit is of high grade ore containing some 5.7 per cent copper.

Rising capital needs are such that the Rio Tinto-Zinc group's Bougainville copper-gold mine in Papua, New Guinea, which reached production in 1972 at a cost of \$430m., would require some \$1.2bn. if it were launched today. And it must be remembered that the huge sums needed for financing a major new operation—often dependent on the fortunes of a single product—have to be tied up in the long lead time to production which can be eight to ten years' duration.

Worries

The mining industry is prepared to live with these difficulties, and indeed it reckons that metal prices in the 1980s will offer a fair return on capital invested now. What really worries the mining men is the trend for governments throughout the world to ignore the fact that a high risk industry requires a proportionately high reward.

Before mine development prospects had soared to their present proportions, mine financing was achieved by means of a promoting company issuing shares. Then came the South African system of mining finance houses, such as the giant Anglo American Corporation, which provided the initial risk capital and subsequently sold off a proportion of shares in a new project via a public issue once the venture had reached the indicated viability stage.

As the cost of new mines grew larger financing them required consortia of mining houses as in the case of the opening up of Western Australia's vast iron ore fields. Forward payment sales contracts were entered into with customers and, inevitably, international bankers were invited to play their part.

Then the politicians moved into the act, ushering in the present era when, in the words of Mr. Sidney Spiro, ex-chairman of Charter Consolidated, "there are relatively few areas of the world where [mining] investment confidence is felt." Governments break the rules. Too often it is a case of "you find, we grab."

Nationalisation without adequate compensation; renegeing on agreements; allowing the mining men and their backers to take the initial risks and then



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مستأمن الاصل

LONDON METAL EXCHANGE VII

The ins and outs of option trading

GROWTH of interest in metal markets over the past years has brought with it later awareness of the variety of operational strategies open to the trader. And, of the new operators, speculators rather than users of metal, the options of metal options become much more widely used. Still the mere mention of a commodity to many otherwise knowledgeable operators will bring a shrug, or even a snigger. Ignorance is the mother of fear. The fear of the unknown has always been the main reason for the wide use of commodity options. But recently the use of commodity options has become much more widespread. It has received a further boost from allegations of widespread commodity frauds in the U.S. A month long U.S. Commodity Futures Trading Commission (CFTC) inquiry into allegations culminated in the arrest of three American businessmen, who had been selling "London" commodity options with fraud. The CFTC has also been using pressure sales tactics and customers about the and potential profits of investment in commodity options.

If this is true it is clearly a case of the awareness of ignorance breeding deceit. So there appear to be two distinct schools of thought among those ignorant of the true nature of the option market. Some regard it as a dangerous aberration and would not touch it with a barge-pole, while others are open to persuasion that it is virtually a way of printing money. In fact both propositions are more or less the reverse of the truth as expressed, or even a snigger. Ignorance is the mother of fear. The fear of the unknown has always been the main reason for the wide use of commodity options. But recently the use of commodity options has become much more widespread. It has received a further boost from allegations of widespread commodity frauds in the U.S. A month long U.S. Commodity Futures Trading Commission (CFTC) inquiry into allegations culminated in the arrest of three American businessmen, who had been selling "London" commodity options with fraud. The CFTC has also been using pressure sales tactics and customers about the and potential profits of investment in commodity options.

(ignoring commissions and other costs), but the second course would leave him with a loss of £30 a tonne. If the price rises to £1,000 a tonne the straight purchase will bring a gross profit of £200 a tonne and the option purchase one of £120 a tonne. If the price falls both strategies will obviously show a loss. But whereas the option holder will merely allow his option to run out undecleared and show an £80 a tonne loss the straight buyer could in theory (but not in practice) lose the whole £800. For this reason few speculators would have the temerity to make an unguarded purchase in this way.

able for another four months. He is now in the happy position of having a guaranteed £120 a tonne gross profit. But if his second view of the market also proves correct and the price declines substantially further profit-making opportunities can arise. Once the price has fallen below £800 he can sell copper against his forward purchase and still count on a gross profit of £120 after writing off the cost of the option. But the option is still intact and a renewed rise to above £800 a tonne may present the holder with still further opportunities to make money. There is no reason why this pattern should not be repeated several times during the life of the option, but most speculators would be quite happy to make a profit on the original deal and would regard further "jobbing" profits as unexpected bonuses. Being a distinct section of the commodity markets the option market naturally carries its own vocabulary of technical jargon. Several of these have already been mentioned, such as: "call option" which allows the holder to buy the commodity in question at an agreed price during the prescribed period; "striking price," the agreed price, usually the ruling price for the relevant delivery position at the time the option was granted; "grantor," the writer or seller of the option who undertakes to supply or accept the commodity in question at the striking price within the agreed period; and "last declaration date," the last date on which the holder of the option can call on the grantor to execute the terms of the transaction. In addition the "put" option allows the holder to sell to the grantor at the striking price within the specified period; and the "double option" allows the holder to buy or sell (but not both) on the same terms.

Caution demands that an acceptable loss level should be set and a "stop-loss order" given to the broker at this level. The big drawback to this plan is the possibility that a short-term price decline could knock the speculator out of the market, preventing him from benefiting from any subsequent rise. If the risk from the straight purchase is to be equated with that from the option transaction the buyer will have to impose a selling order at £720 a tonne in the present example. If the market falls below this level

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Richard Mooney

Mining

Continued from page 10. A higher share of rewards; these are the sighted actions which led to the present slowing of mine development. Mining companies, far less bankers, are just not going to give to-day's kind of big pay without some guarantee of security for it and a fair return. The point was firmly made by the recent half-yearly report of Zaire's giant-plus Tenke-Fungurume project, largely because of the lack of further funds had been precluded by political



An aerial view of the open copper mine at Panguna, Bougainville Island, Papua New Guinea.

idea of the money needed to provide the metal of the future has come from the recent session of 14 leading mining and metal concerns to the European Economic Commission. They estimate that over the next 20 years an investment of £34bn. will be needed to maintain European production alone of aluminium, copper, nickel, lead, zinc and iron. The iron of the present new

mining stalemate is that those who stand to suffer most as a result are the less developed countries whose admittedly understandable nationalistic ambitions could amount to cutting off the nose to spite the face. These countries need reasonably priced metal in the world and they often have potentially large resources of it which are remaining untapped. What is the solution to the problem? The EEC submission suggested a co-operation agreement between the Common Market and the developing countries. This could provide the frame-

work for an operating deal whereby any host government stepping out of line in regard to a mining venture could be submitted to pressure from the EEC, an important market for minerals. It was also suggested that the EEC could make available financial contributions to mining projects or provide guarantees for them. Another possibility mooted was the setting up of an insurance scheme with the use of contributions from the mine financiers in proportion to the size of their investments. Such a scheme is operated by the U.S. Overseas Private Investment Corporation. However, its weakness is that insurance benefits can only be claimed if the situation deteriorates to the point that backers of a mining venture have to surrender their investment and take the insurance compensation; there is no indemnity against limited erosion of benefits under an operating agreement. Last year the then U.S. Secretary of State, Dr. Henry Kissinger, proposed to the UNCTAD meeting in Nairobi that the U.S. should establish an International Resources Bank which would participate with foreign investors and host governments in natural resource development agreements. It could be associated with the World Bank, mobilise capital for sound ventures and help to insure supplies of raw materials while aiming to moderate commodity price fluctuations. As the Committee of the British-North American Research Association has put it in a recent report, "Some agreed basis, accepted by both producers and consumers, for attracting capital, ensuring markets and apportioning benefits, must be found if producer countries are to reap the benefits of effective development of their mineral resources for the years ahead."

It may be added that the required new deal for the mining industry, backed by some form of international muscle, cannot be delayed much longer. If it is, the world will face a very painful hiatus during the years when metal demand has outstripped existing output capacity and the new supermines are still working through their long lead times to production.

Kenneth Marston
Mining Editor

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Commodity trusts grow in number

COMMODITY trusts have mushroomed in the past two years. In June, 1975, there was only one small fund. Now there are more than ten, worth together over £58m.

The investors in the trusts do not come from the world of commodities. They are refugees from disasters in property, the stock market and the national currency. As refugees they have made a cautious start in their new country and have bought with them many of the attitudes which prevailed in the old. Meanwhile, their hosts, the establishment in commodities, regard them with curiosity, bemused by their alien customs.

Foremost among these customs is that of buying the physical metal, putting the warrant in the bank and forgetting about it; not granting options against it or selling forward but just letting the metal lie.

After the frightening experience in the stock in 1974 they are scared of speculation and have little faith in any manager to do better than the market. Consequently they have bought units in trusts which are controlled by prestigious City houses which promise not to do anything too speculative.

The three biggest funds all fall into this category, although there are important differences among them. Warburg's Metals Trust, currently valued at £23m., is by far the most substantial. It is open only to pension funds, which normally commit only one or two per cent. of their funds into this novel investment medium.

Eighty pension funds have invested in the trust, including those of several international companies and the occasional nationalised industry. But none of them has invested more than 5 per cent. of its portfolio in this way. The major disadvantage, as far as they are concerned, is the lack of regular income which they are used to

TOP TEN COMMODITY TRUSTS							16 February	
SIZE	FUND AND SPONSOR	Broker	Launch date	Gains since launch	Est. copper stocks (tonnes)	Est. silver stocks (ounces)		
£23m.	Metals Trust, S. G. Warburg	Brandels Goldschmidt	24/7/75	33%	13,000	2,250,000		
£13.9m.	Old Court Commodity, Rothschild's	Merrill Lynch	30/1/76	30%	929	218,000		
£13.0m.	Save and Prosper Commodity Fund	R. Wolf and Gill and Duffus	31/12/75	47%	4,000	400,000		
£10.9m.	Wardgate, Various Investments trusts	Commodity Analysis	8/12/76	5%	—	—		
£1.3m.	Surinvest Copper Trust	G. W. Joynson	17/12/75	41%	1,575	—		
£1.0m.	The Silver Trust, Surinvest	G. W. Joynson	6/5/76	7%	—	370,000		
£0.9m.	Commodities and Options	Commodity Analysis	22/12/75	83%	—	—		
£0.9m.	Atlantic Raw Materials and Commodities	Commodity Analysis	4/4/76	—	—	—		
£0.3m.	First Viking	M. L. Doxford	20/1/76	—	—	—		
£0.2m.	First Viking Double Option	M. L. Doxford	26/11/76	1%	—	—		
£58.1m.	Totals				19,504	2,338,000		
	LME stocks				618,000	26,970,000		
	Commodity trust stocks/LME stocks				3%	13%		

expecting from gilt-edged, shares and property investments. It is also the reason why insurance companies have taken less interest than pension funds or investment trusts. The actuaries rely on a flow of income to pay for liabilities as they fall due.

Convenient

But not all the funds were created for the benefit of the institutions. Two of them, First Viking and Commodities and Options, have been used primarily as a convenient vehicle for investment by smaller clients of broking firms. These are run much more on the lines to which commodity brokers are accustomed. Physical stocks are rarely held and the positions are changed on a daily basis. Futures and options are the usual fare.

At the opposite extreme are the two Surinvest funds which invest purely in stocks of copper and silver respectively. They enable the small investor, who cannot afford to buy a single lot, to obtain an indirect stake in the metal of his choice. Some larger investors also go through the funds in order to avoid the bother of insurance and so on.

Recently, two more funds launches (mostly at the end of

1975 and early 1976) was fortunate and all of them are showing a profit. The "dealing" funds have done better than the more passive ones and Save and Prosper, which has done best among the conservative trusts, is possibly the most active of them.

And while the funds have been doing well out of the commodity exchanges, the commodity exchanges have probably also been doing well out of the funds. A diverse collection of brokers appears in the accompanying table, all of whom doubtless appreciate the advent of commodity trusts. However, the brokers to the big funds probably wish that deals were more frequent, while brokers to the dealing funds wish that the funds were bigger.

The Wardgate fund is geared for institutions but, like C & O, will adopt a much more active investment policy than the existing institutional funds. The sponsors are investment trusts, which presumably feel less nervous when insurance companies stake in the metal of his choice, and pension funds about wheeling and dealing.

As a whole, the commodity trusts have got off to a good start. The timing of the

The effect of commodity investment on the market themselves has so far been minimal. Producers, consumers and carriers and speculators still hold the stage. But it is worth remembering that commodity trusts have not been going for one and a half years. If they can rise to value of £58m. in such a short time, is it not possible that say, ten years' time they can be a significant force?

The turnover of the trusts also minimal but that is a result of the predominantly conservative investment attitudes. Buying, when it does come, is good "quality." That is to say, it is generally not on margin and the stock will usually be kept for several months more. In terms of stock, it seems to have about 10 per cent. of the copper in the LME. This is probably an accurate reflection of the great significance of trusts in the market generally.

But among the less widely traded metals, the trusts are able to have some influence. The case of silver, the trust hold a full 13 per cent. of LME stocks. Over the past few months most funds have suffered a disinvestment. The institutions have preferred to put money into the gilt market, the strength of sterling has eliminated one of the prime reasons for commodity investment in commodities, likely to continue its upward trend. It represents a useful aid to portfolio diversification.

Meanwhile, the LME as other exchanges should come the development. If it does continue, the new could provide useful liquid to the markets and could provide a buffer stock in metals where, councils governments provide an adequate buffer or none at

James Bartholomew

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Certainly there are no particular mysteries about the basic forms of LME trading, but the commodity markets generally are accepted as being riskier than the Stock Exchange. And there are important distinctions between the two.

Shareholders tend to benefit if market prices move up and lose if they go down. Money may be made on the LME either way. But the metals trader will not have regular dividends. Rather does he take a view of which way prices will move and goes long or short accordingly. On the Stock Exchange investors have to pay the full price for the shares they buy within a specific account period. On the LME operators work on deposits initially, thus ensuring a much higher gearing.

There are important differences too on the time scales involved. The Stock Exchange investor may buy a share and hold on to it for as long as he desires, but on the LME contracts last for a maximum of three months (with the exception of silver, where seven months is the case) so that they must be balanced out with an opposite position before that time, unless delivery or ownership of the physical material is

required. Generally, the scale of operations on the LME will be financially larger than on the Stock Exchange. It is not possible to buy £50 worth of copper, for example, whereas it is possible to make small share investments. There are minimum lots for trading of 25 tonnes for copper, lead and zinc, of 5 tonnes for tin and of 10,000 ounces for silver.

It is quite likely in this case that the minimum financial provision will run into several thousands of pounds. One contract of lead covering one lot, with the cash price at £350 a tonne, entails a liability of £8,750 and the immediate provision of a deposit which is likely to be in the region of 10 per cent. of the total.

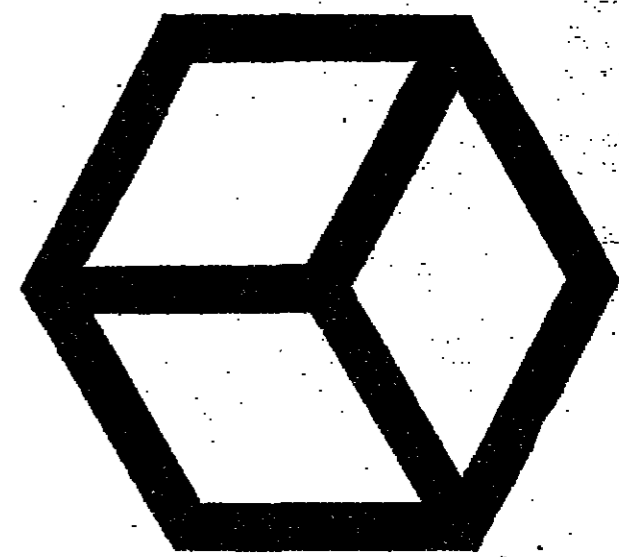
Options

Immediate outgoings may be less if an investor is dealing in options (which are covered in a separate article) and it is still possible to invest in LME metals with a small outgoings, if control over the investment is accepted.

If, for example, an investor approached a broker and said that he had £500 to invest, he would be directed, in all probability, to an off-shore trust run from the Isle of Man or Jersey. If he had £1,000 a broker might put his money into a syndicate with funds of, say, £20,000.

When the sum available reaches £5,000 some brokers will start individual accounts, which are operated by the brokers themselves, giving an account to the client when a transaction is made on his behalf. In this case it is likely that the initial stake will be the total liability of the investor. At sums of £10,000 and above investors should be able to find a position before that time, unless delivery or ownership of the physical material is the investor himself.

CONTINUED ON NEXT PAGE



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LONDON METAL EXCHANGE IX

معلومات العمل

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Little space for the minor metals

ALTHOUGH THE London Metal Exchange price movements change rapidly, it is often not realised that London is also an important international centre for trading in a wide range of so-called minor metals, which present a valuable slice of commodity trading. Apart from aluminium and steel, there are the less widely known metals, like wolfram (tungsten ore), antimony, tin, cadmium, chromium, mercury, selenium and a host of other metals and alloys used by London merchants, any of whom are also members of the Metal Exchange dealing in the base metals at the same time. Several of the minor metals—like bismuth, indium and tellurium—are by-products produced in the mining or smelting of the base metals, copper, lead and zinc.

Obviously these links, and the international reputation of the London Metal Exchange as the hub of the metals trading world, are an important influence in London's role in minor metal trading too. So has been the availability of sterling finance for merchanting deals of this kind, although the recent bank of England curbs on the use of sterling loans for deals between two third countries negotiated through Britain may eventually lead to at least some of the trade going away from London.

Already sterling quotations for the minor metals have gradually been replaced by dollar quotations for international trading, with wolfram switching over only in December, following the Bank of England's clampdown on sterling financing.

Nevertheless the Minor Metal Traders Association was able to win some valuable concessions from the Bank of England to enable traders to continue operating from London and bringing in valuable invisible foreign exchange earnings in the process. It was hoped, and in some quarters is still hoped, that the London Metal Exchange facilities might be expanded to include one or several of the minor metals to provide hedging facilities for consumers against the sometimes violent price fluctuations that occur on occasion. In the past there have been moves to open LME markets in nickel, mercury and wolfram, while contract for aluminium is drawn up and ready to go, pending permission from the U.K. Government and a more co-operative attitude from the highly integrated aluminium producers.

But there seems little prospect of aluminium producers backing the proposed new market since it is feared it would have an unstabilising effect on the producer price system and bring few benefits. Nickel producers are equally opposed to the idea of a futures market—one has been tried and failed

in New York—while it was found impossible to work out viable common quality standards for the proposed markets in tungsten ore and mercury. These latter two metals do in fact have few price constraints, with values being decided purely on deals between consumers and producers and merchants on the free market in London and other centres.

Most of the other minor metals have a two tier pricing system—one official price quoted by the major world producers is used in direct supply contracts with consumers and usually covers the bulk of business done; the producer price as it is known is adjusted on occasions in accordance with changes in the cost of production and more usually to reflect the supply-demand situation.

At the same time there is the free market price, mainly operated by merchants, which comprises supplies from all other sources—from producers in the Communist bloc countries, consumers with surpluses to spare, secondary suppliers and often Western world producers either seeking extra sales or not abiding by the producer price for some reason or another.

In the cases of metals like aluminium, nickel and others with a few dominant producers, the producer price system can work well, although it is normally the free market covering residual supplies that shows changes in the under-

lying supply-demand situation more closely and clearly.

But in the case of wolfram and mercury there is no official producer price, in view of the diversification of supply sources that are reflected in the free market fluctuations. In the past mercury producers did have an official exchange-house London price, but the spread of production away from the traditional suppliers in Italy and Spain, as well as the huge surplus that has built up because of the steep decline in demand in recent years owing to pollution fears and greater use of substitutes, have led to producers charging what they can get on the free market.

It is ironic that the biggest price slump in metals over the past decade has been suffered by mercury, which was the metal whose resources would be the first to be exhausted on a world scale according to the gloomy forecasts of future natural resources by the Club of Rome.

Predictions

As with so many predictions of this kind not enough allowance was made for changes in consumption patterns and the use of substitute materials or processes. Attempts by mercury producers to form a cartel arrangement with a minimum price below which no sales would be made have come to naught in the general surplus situation, aggravated by the economic recession, and producers have been forced instead

to try to stop the price slide by cutting out uneconomic production or stockpiling surpluses at great expense.

Attempts to form a tungsten price agreement between producers and consumers under the auspices of the U.N. Conference on Trade and Development also appear doomed to failure—mainly because the steady price rises in the past 18 months even during the worst part of the economic recession have lessened the incentive for producers to achieve price stability, despite the volatile behaviour of the market in the past.

The world's leading producers of tungsten are both in the Communist bloc—China and the Soviet Union, although the Russians have been net importers in recent years while the Chinese have significantly reduced their exports restricting sales to higher and higher price levels. The rift between China and the Soviet Union, who used to trade directly at one stage, brought the Western world free market into greater activity handling increased Chinese sales that previously went to Russia, and Russian purchases that were previously made direct from the Chinese.

But in the past few years it is believed some kind of buyer may have been concluded between the two countries and in any event Chinese exports have been diminishing in volume considerably. This still leaves many producers, including developing

countries, dependent on movements in the free market which has proved very volatile in the past. While the bid for a consumer-producer stabilisation arrangement does not appear likely to be successful there have been more successful meetings of the Tungsten Producers Association, at which China has been an observer.

However, there is little incentive for any positive action to be taken at present in view of the steady rise in prices that has taken the tungsten ore market to historically high levels during the past 18 months with remarkable stability. Experience in other minor metals has not been so good for producers. The slump in demand, as a result of the economic recession world-wide, brought prices generally back down sharply from the high levels reached during the 1974 boom. In many cases price behaviour has little direct effect on supplies since the metals involved are by-products of other metals possibly affected by different supply-demand patterns.

Nevertheless, demand for minor metals often provides a bellwether of the general state of economic activity, and on that basis the recent general hardening in prices must be encouraging for the producers.

In Britain, the general switch to dollar quotations for minor metals and the change-over from Commonwealth to EEC import tariffs has caused some headaches to consumers forced to pay higher prices at a time when their rivals in other countries might well be paying less. For merchants, the formation of the Minor Metals Traders Association a few years back, and the introduction of its own standard contract terms and recently special agreement with the Bank of England, suggests that the ties with the Metal Exchange are loosening instead of growing closely as had been expected in the past.

International traders in non-ferrous metals



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CONTINUED FROM PREVIOUS PAGE

All of this makes the choice of the broker of very great importance. But, here again, there is a distinction between the brokers in metals and the stockbroker. The metals broker will often be carrying out the jobbing function, which is a quite separate operation on the Stock Exchange.

A list of brokers who are members of the MME can be obtained easily from the LME and the presence of a company on this list is evidence of its financial security. What is less easy to ascertain, and this can only be done by direct contact between the potential client and the broker, is an estimate of the broker's trading performance, a significant point to bear in mind if an investor's account is to be run by the broker.

It is on the whole best to avoid making any commitment to a small concern run from a telephone in the bedroom which is taking an investor's money and trading it through an established broker. There is not, in this country, any body like the

Futures Trading Commission in the U.S. which seeks to protect the investor from the wayward practices of the bucket-shop operator.

The relationship between broker and client is based on mutual trust and confidence. This explains the widely differing degrees of security the broker will seek from his client. Some houses will demand bank references and evidence of financial strength before opening an account with a new client. Others will be content with the placing of a deposit and guarantees that warrants—the documents denoting ownership of tonnages of metal—will be handed over on request. Others again will keep the warrants in their care.

The brokers make their money from clients by commission fees. Just as the absence of any set margin of deposit makes for a variety of practices regarding the paid-up stakes of clients, so the commission rates vary from house to house, and from client to client.

The average commission probably works out at about one quarter of one per cent on the roundturn. That is to say, one eighth of one per cent on buy- and sell- and the same amount on selling it. But for very large contracts with regular clients, the commission could well be less. On the other hand some houses dealing specifically with the private investor might charge one half of one per cent on the roundturn.

The level of these charges raises the question of the sort of return investors in metals should be seeking. Clearly this is an individual choice, but it seems likely that if he is not making between eight and ten times the amount he is paying in commission he is cutting his profit margins very fine.

The point is that like any other investment, trading in metals demands discipline. It is necessary to decide on the total size of any commitment and it is generally accepted that commodity investment should not exceed more than five or ten per cent of the total investment portfolio. It is also necessary in the interests of peace of mind not to make any commitment which would be financially embarrassing if the whole lot was lost.

Losses

Brokers are obviously not out to lose their clients' money, so the investor should discuss with them the question of stop-loss points, at which time metals should be sold if the market is moving adversely against their position.

Losses can in any case be minimised by careful attention to the market. The investor is essentially providing speculative funds for the market and thus contributing to the liquidity which is needed for trade hedging operations. It therefore makes sense to keep trading within narrow limits during the months when industry involvement is traditionally at a low ebb, like the summer. The investor should also keep in touch with the fundamental factors of supply and demand for the metals in which he is trading. But this sort of knowledge is not enough in isolation, for it is quite conceivable that the market prices will advance when all the supply-demand indications show there is a metal surplus. This means that he is thrust back on the technical analysis of the market which the broker can provide.

Trading in metals can, in short, be an extremely subtle business as investors learn the mysteries of techniques like saddles and pyramiding, on how to make money when prices are declining as well as when they are steadily moving up. But it is not the sort of investment that can be made and left alone, for the market has to be watched. And the investor should not be prone to insomnia.

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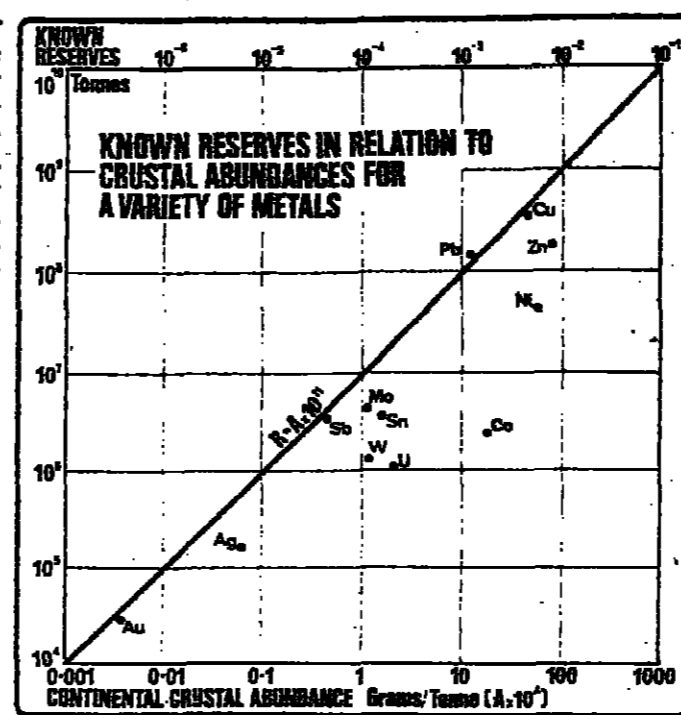
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Battle to satisfy future needs

METALS have a fascination for man that is difficult to analyse or define. The early quest for gold was not only a quest for wealth; it was also a quest for material with unique characteristics for the fashioning of symbols of authority, and for the adornment of rulers and their consorts. This need of society for materials with special properties persists and provides the driving force for the present metal extracting, metal fabricating and metal using industries. As a measure of this need, in technically advanced nations about three quarters to one tonne of metal is now used per head of population per annum.

Some two thousand years ago seven metals—copper, silver, gold, iron, lead, tin and mercury—were known to man and from these perhaps ten alloys or mixtures were made. We now know from work on the periodic classification table that in the sequence from hydrogen to uranium about 80 of the 92 elements exhibit metallic properties in the solid state. Of these elements about 40 are in common use nowadays, providing the bases for alloys—for example, iron, copper, aluminium metal and titanium; as special alloying additions to the bases (manganese, molybdenum, silicon and tin); or for conferring special properties on a base as metallic coatings (nickel, chromium, zinc and tin).

Metals seldom occur in nature in the uncombined or native form. They are notoriously reactive with water, oxygen and sulphur, corrode readily and are usually found as oxides or sulphides. Two types of natural concentrations, or ores, of metalliferous minerals are found. One kind is the sedimentary deposits developed by weathering of rocks and subsequent movement of the weathered products by streams and rivers, leading to extensive horizontally stratified deposits. It is no coincidence that the ores of the two most widely used metals, iron and aluminium, are



of this type, for the ores are rich in metal and easy to find. The other concentration process develops from the primary solidification of the earth's crust. Hot vapours and liquids in the containing metals in solution are forced upwards from still molten rocks and react with existing solid rocks, particularly where geological faults have occurred, filling the faults with metalliferous minerals to give veins or floats. Such veins are difficult to detect and difficult to mine. Lead, zinc and copper are examples of metals produced from these types of deposits.

If we ignore for a moment the problems of recycling metals, it would appear that in mining metalliferous minerals, and then taking metals from them, we are drawing on a wasting asset. This is the situation which some people seize on to cry "doom!" But are things as bad as they would make out? We know from the work of nuclear physicists that atoms with nuclei having a mass about half-way between that of hydrogen and uranium are the most stable. As a result, when the atoms composing the earth were first formed the tendency was for those atoms around the middle of the periodic table to be produced and this is where most of the useful metals are found. This is reflected in the continental crustal abundance, that is the average percentage of a particular element found in the earth's crust.

Abundances These crustal abundances for some common metals are given in the table below together with the total mass of metal available if mining is carried out to a depth of 3.5 km. However, with the known mining and bulk mineral processing methods not all of these metals could be recovered. For those metals where it is possible to assess the known reserves with some accuracy it is found that these are related to the crustal abundance by the expression $R = A + 10^4$ where R equals known reserves in tonnes and A is the crustal abundance expressed as a percentage.

From the use of this formula it is possible to assess reserves for all the metals, and these assessments can be compared with the accurately known reserves. The divergences for a variety of metals are shown graphically above, and this would indicate that there may well be extensive deposits of cobalt, tungsten and uranium still to be discovered. Taking the most optimistic estimates of improvements along traditional lines in exploration techniques in mining and mineral processing, the reserves R are probably about three times those given by the above formula and these values for a range of metal are also given in the table. The problem now is to assess significant amounts of metals lost through nuclear disintegration, going to be consumed. If we divide the known reserves by can neither be created nor



Reading out the day's official prices at the London Metal Exchange.

destroyed is still true, so that although metals may be taken from the earth, and fashioned in various ways, they are not lost—they are just redistributed. This is a completely different situation from that of energy reserves, for when natural gas, coal and oil are burnt the products of combustion are of little interest to anyone and the potential energy is dissipated.

Recycling

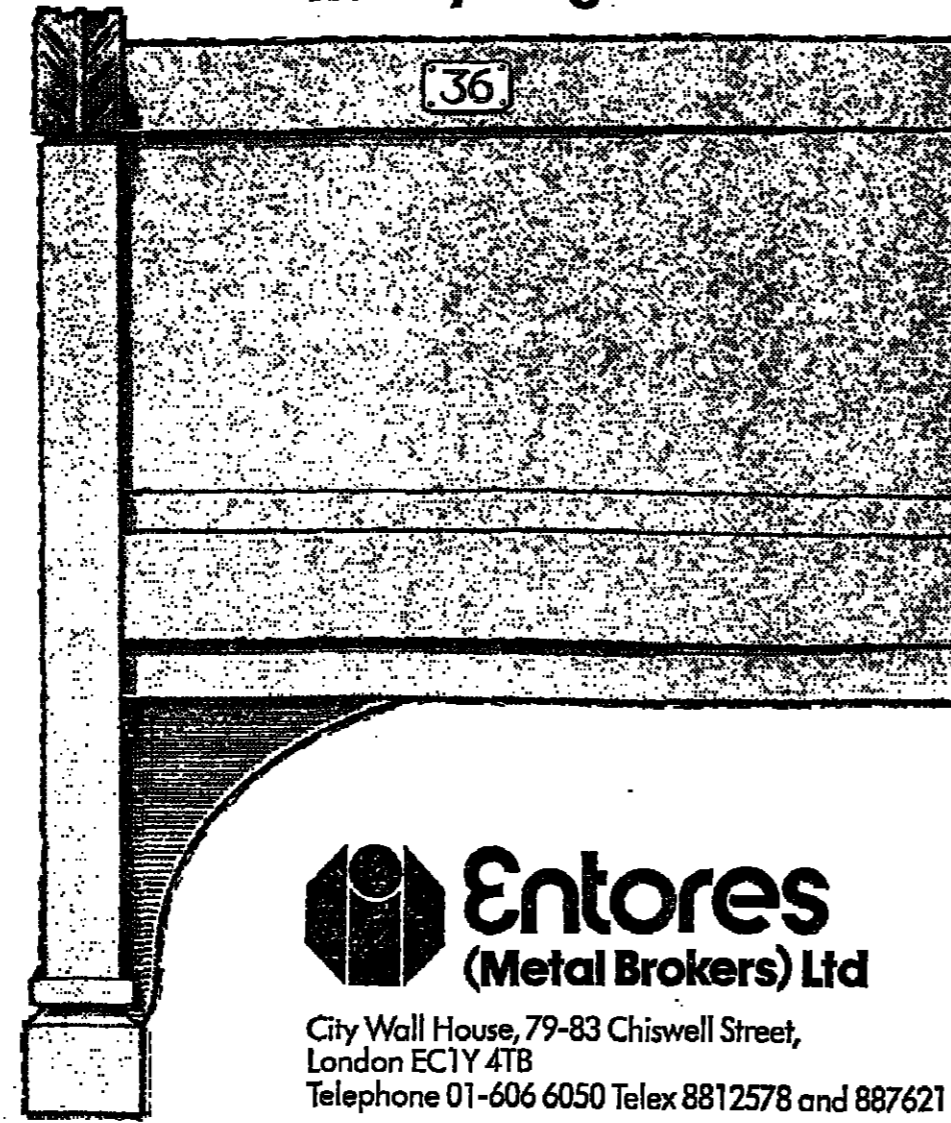
The recycling of metals influences significantly the amount of new or virgin metal required. In Britain secondary recycled metal accounts for about 65 per cent. of the lead, 50 per cent. of iron and steel and 40, 30 and 25 per cent. respectively of the annual consumption of copper, aluminium and zinc. These values are influenced by the technical problems of scrap recovery and refining and the processing costs relative to that of virgin metal and also the time for which metal components stay in service. Considerable amounts of copper and aluminium are used in the building trades and hence tied up for many decades. If during that period there has been a growth in demand, the scrap arising will now only form a smaller proportion of the total

CONTINUED ON NEXT PAGE

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THE RESERVES OF METALS

Metal	Continental Metal in abundance of earth's crust (A)		Optimistic estimate of metals (R) recoverable in the oceans	
	%	Tonnes	(3x10 ⁴) Tonnes	Tonnes
Silicon	29.0	43.5x10 ¹⁰	8.7x10 ¹⁰	4.7x10 ¹⁰
Aluminium	8.3	12.5x10 ¹⁰	2.5x10 ¹⁰	1.5x10 ¹⁰
Iron	4.8	7.2x10 ¹⁰	1.4x10 ¹⁰	1.6x10 ¹⁰
Magnesium	2.1	3.2x10 ¹⁰	6.3x10 ⁹	2.1x10 ¹⁰
Titanium	0.53	8.0x10 ⁹	1.6x10 ¹⁰	1.5x10 ¹⁰
Manganese	0.10	1.5x10 ¹⁰	3.4x10 ¹⁰	3.0x10 ¹⁰
Zinc	0.0081	1.2x10 ¹⁰	2.4x10 ¹⁰	1.6x10 ¹⁰
Chromium	0.0077	1.1x10 ¹⁰	2.3x10 ¹⁰	7.8x10 ⁹
Nickel	0.0061	9.1x10 ⁹	1.8x10 ¹⁰	3.0x10 ⁹
Copper	0.0059	7.5x10 ⁹	1.5x10 ¹⁰	5.0x10 ⁹
Lead	0.0013	1.1x10 ¹⁰	3.9x10 ⁹	4.6x10 ⁹
Tin	0.00016	2.4x10 ⁹	4.8x10 ⁹	5.0x10 ⁹
Tungsten	0.00012	1.8x10 ⁹	3.6x10 ⁹	1.5x10 ⁹
Molybdenum	0.00011	1.65x10 ⁹	3.3x10 ⁹	1.6x10 ⁹
Gold	0.0000035	5.2x10 ⁸	1.0x10 ⁹	6.0x10 ⁸

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مقدمات العمل

LONDON METAL EXCHANGE XI

A complicated game of competing interests

BUSINESS is without risk. Each business endeavours to eliminate the chance of loss. The merchant would be able to concern using raw materials is automatically part of a complicated game where competing interests play against supply and demand and the ability of finance. Ready prices may be quite different in stability of price in a nation where producers seek maximum returns and consumers seek minimum outlays. or the metals industry in the widest sense, the use of going on the LME is an attempt to keep risks at the lowest possible level. It is often as a form of insurance but more accurately a system of book balancing, where the elements in one market are used to counteract the movements in another in an attempt to limit exposure to risk price fluctuations.

Simply, the buying or selling metal in a physical sense is set by the taking of a reverse position on the terminal market. LME, so that losses on the may be balanced by gains on the other. It is an exercise arbitrage designed to establish a margin of profit regardless of the way the metals prices may be moving.

A merchant, for example, might buy a quantity of metal at the current prevailing LME price and arrange for transport to London. Having completed this transaction, he would sell the same quantity of metal forward on the LME.

At the time of the metal's arrival in London he sells it to his customer at the prevailing LME rate. On LME he closes his position to the purchase of a contract for the quantity of metal he initially sold forward.

It is quite likely that market prices will have changed in the interval between the two pairs of transactions. If there had been a fall of £10 per tonne, the merchant would have lost that amount on the physical sale. On the LME, however, the merchant would be able to close his position by buying at the prevailing settlement price of £10 less per tonne than the sum of his original forward sale.

A loss in the physical market has therefore been balanced by a profit on the terminal market and the merchant has broken even by playing one market against another. Had the price on the other hand moved higher in the interval between the two pairs of transactions, he would have gained on the physical transaction but lost on the terminal market transaction. The net result would nevertheless be the same.

That is an instance of a selling hedge in its most basic form. A buying hedge works in opposite fashion. And it is, of course, possible to work out endless and complex variations, using different markets simultaneously, carrying over contracts and so on. But the basic principle remains the same.

Growth

The growth of hedging facilities on the LME has been basic to the development of the market and the maintenance of its international position. One historian lists hedging, with the introduction of standardised contracts for dealing and the growth of speculation, as being a fundamental factor in the evolution of the LME.

And, indeed, the three are linked. The use of a standardised contract permits the dealing in paper so that transactions can be completed without the presence of physical metal. The growth of speculation provides the source of funds through which the metals trade can conduct hedging operations. The speculative funds are the risk money which provide liquidity for the trade. The international character of the LME's membership testifies to the importance of the hedging facility for the international

PROCESS OF A SELLING HEDGE

THE PHYSICAL TRANSACTIONS

Merchant buys 100 tonnes of lead at current LME settlement price of £330 a tonne.

The lead arrives and merchant delivers to his customer at the current LME settlement price of £330 a tonne.

The result is a loss of £10 a tonne.

THE LME TRANSACTIONS

Merchant sells forward 100 tonnes of lead for delivery on date of physical arrival at current forward price of £340 a tonne.

Merchant closes his forward position by buying 100 tonnes of lead at the current LME settlement price of £330 a tonne.

The result is a profit of £10 a tonne.

The net result by balancing one transaction against the other is break even.

mining and metals industry and infrequently. There is an important result springing from this.

Given the fact that only a residual amount of physical zinc is traded on the LME, the absence of hedging leads to a market which is very vulnerable to speculation and where the price can move violently. Indeed, an excessive build-up of speculative activity led to a temporary ban on non-trade transactions in the middle of 1975.

Contracts

No figures are available to quantify the use of the different metals for hedging. Nor are they available to illustrate the fashion in which the different sections of the industry use the LME. But it is possible to make some generalisations.

On the production side, the mines make more use of the LME when prices are advancing than when they are retreating. Their sales contracts are often worked out on the basis of average LME prices, calculated over terms of perhaps one or three months. When the market is on a definite upswing, they can register the difference between the price they receive for actual physical sales and the price obtaining on the market.

London brokers have noted, for example, that the mines were active during the upsurge in price during 1973. During the succeeding downturn, however, the situation was very different. The mines were not anxious to be left with exposed positions on the market when prices were low and, in some cases, not even covering the costs of production.

As far as consumers are concerned, the merchants and fabricators use hedging most extensively. Hedging was actually started by merchants wishing to protect their shipments, stocks and future commitments. The same needs exist today.

Scrap merchants are not in quite the same position. Although they are known occa-

sionally to use the market they are faced with one serious restriction. Scrap metal prices tend to move independently of the LME prices for primary metal.

The fabricators were drawn to the market as its facilities developed in the late 19th century. They buy metal in its primary form and carry out first stage processing. In the case of copper, they buy wirebars and cathodes and turn them into the shapes needed by their customers: shapes sections like sheet, strip, tubes and rods. Buying often on a monthly quota basis from producers, they are as exposed to price variations as the merchants.

Manufacturers, who purchase metals after the first stage of processing, are on the whole reluctant to use the facilities of the LME for hedging, often preferring to accept fluctuations in prices on to the ultimate consumer.

The reasons for the lack of uniformity in approach to the LME among consumers are varied. In the first instance, there is some ignorance of the facilities available, and where large stocks are not carried there is reluctance to indulge in the expense of employing a specialist to watch the markets when the main search for profits is inevitably conducted elsewhere.

Some consumers do not feel there is any need to hedge on raw material prices if their sales are made on a back-to-back basis, where they are buying what they have in effect already sold in advance.

Supporters of the LME, and indeed those who are active on it, do not find this sort of reasoning convincing. The failure to hedge, they argue, is a dangerous speculation in itself. The LME is not, after all, a haven of gamblers but a centre of trading, created by those in the trade.

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Needs

CONTINUED FROM PREVIOUS PAGE

amic resource life index to these critical applications or to where recycling is comparatively easy and efficient? There are those who would argue that normal market forces will take care of this situation. It is to be hoped that they do, for any legislative action would need to be on an international scale and difficult to control.

One thing certain to happen, in view of the data shown in the table on the right is that the price relationships between metals will change very markedly over the next fifty years.

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What of the longer term future? With the extent of metallurgical knowledge at the moment, there would be no difficulty in providing metals and alloys to meet present engineering needs if we were limited to the use of those metals with a present dynamic resource life index of about 500 years, but it is assumed that aluminium is in this category. This is a fairly safe assumption for the dynamic resource life index of aluminium is based upon bauxite as the primary raw material, and only slight improvements in technology or price differentials are needed for a very much wider range of aluminium-bearing materials to be considered as workable ones, and this should be judged in relation to the high crustal abundance of aluminium.

There are two critical long-term issues. The demand for metals is clearly linked to population growth and increasing standards of living. If population growth can be limited, particularly in regions where potential aspirations are greatest, then there should be no difficulty in providing the metals society requires.

The other critical issue is that of energy. The most optimistic estimates of energy reserves based on fossil fuels give a dynamic resource life of 300-500 years. If society needs metal then, as we have seen, there is no real shortage of metal atoms—all that is required is abundant energy to concentrate and then liberate them from the other atoms they wish to be associated with or have become associated with as a result of man's actions. Nuclear power derived either by fission or fusion is the real long-term hope if the earth is to remain populated by metal using human beings.

Professor J. Nutting
President-elect,
The Metals Society

Metal	Dynamic Resource Life Index (years)
Zinc	40
Gold	60
Tungsten	75
Lead	87
Copper	116
Silver	128
Molybdenum	134
Mercury	125
Tin	195
Aluminium	225
Chromium	267
Nickel	270
Manganese	482
Iron	626
Cobalt	685

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The language of the commodity markets

ACTUALS: The physical commodity itself as opposed to hedging operations made by the trade to reduce their risk of being exposed to price fluctuations. The term is very seldom used in relation to the LME where one more commonly refers to "physical" for the metal.

ARBITRAGE: This is a very professional operation which involves a purchase in one market with the simultaneous sale of an equivalent quantity in another market (for example, the LME and The New York Commodity Exchange); and the necessary foreign exchange transaction to protect against any change in the parities between the two currencies involved. There are many complexities in this operation involving perhaps differing fundamentals affecting the commodity on one market against those influencing the other; differing interest rates affecting the contango on the two markets; and variations in the structure of the two currencies involved (for example, the ever-changing forward discount for sterling against the dollar).

ASSAY: The independent evaluation of the conformation of a metal. LME registered brands must conform to a typical assay for the brand in question.

BACKPRICING: A consumer establishes his contract with a producer which commits him to receive a certain limited tonnage—usually for the next 12 months—in monthly shipments. Where copper is the metal contracted the price is only established around the time of shipment. Outside the U.S. the price used by producers is currently the LME settlement price. Each day's settlement price is valid until noon the following day, and the consumer has the option of "fixing" a proportion of his monthly quota on that price up to that time. This "price-fixing" operation is referred to as backpricing.

BACKWARDATION: The situation when the cash or spot price of a metal stands at a premium over the price of metal for delivery in three months' time. A backwardation occurs when nearby supply in a metal is tight. The size of the backwardation is determined by the supply/demand factors on the nearby positions related to the same factors on the forward position. The backwardation is also referred to as the "back."

BASIS PRICE: The price agreed between the seller and the buyer of an option at which the option can be exercised. This price is also called the "striking price." It is normally the current market price of the metal.

BEAR COVERING: The closing of a short position.

BEST ORDERS: Buy or sell orders which the LME ring dealing broker executes on the market at what the dealer judges to be the best available price. It is also termed buying (or selling) "at best."

BID: The price the buyer is prepared to pay.

BORROWING: Derived from "borrowing metal from the market" which is achieved by buying a nearby date and simultaneously selling a date further forward. (See also Cash and Carry.)

BROKER: One who puts buyer and seller in touch with one another for a fee and does not act as a principal. By extension, ring dealing members of future markets are often called brokers, especially in the U.S.A. However, on the LME ring dealing members act as principals, though they are still usually referred to by clients as brokers.

CALL OPTION: An option which gives the holder the right to buy metal from the seller of the option at the basis or striking price. A call option is bought in the expectation of prices rising and limits the buyer's risk to the premium paid should his view of the market prove to be wrong.

CARRYING: Carrying is the general term used for both "borrowing" and "lending" on the LME. It is also used to describe a borrowing operation which results in physical metal being carried in an LME warehouse by the borrower.

CASH AND CARRY: When a contango exists, the premium of the forward position over the prompt generally reflects costs of storing, insuring, and financing for that period. When metal is in surplus the contango may widen to the point where banking operations are attractive. Capital is invested by buying cash metal and simultaneously selling forward where it yields, after costs, better returns than the prevailing money markets. (See also Borrowing.)

CLEARING HOUSE: An independent body providing clearing facilities for some futures markets (that is those that do not operate as a principals market).

CLERK: An assistant to an LME ring dealer. He or she may be "authorised" (empowered to deal in the absence of the dealer) or "unauthorised" (empowered only to record and check transactions).

COMEX: The abbreviation for the New York Commodity Exchanges. Comex is often referred to as meaning the prices of either copper or silver in New York, for example, "Comex is 85 cents" meaning the Comex copper price is 85 cents a pound.

COMMISSION HOUSE: An essentially U.S. term. It refers to a company introducing client business to a ring dealing broker. Many companies introducing business in London as commission houses are themselves members of exchanges in the U.S. and vice-versa. Individuals acting in this capacity are often referred to as half-commission agents—so called because they are rewarded for introducing the business and maintaining local contact with the client by a half share of the ring dealer's commission.

CONTANGO: The situation when the price of a metal for forward or future delivery stands at a premium over the cash or spot price of the metal. Contangos occur when there is a plentiful supply of the metal. The size of the contango does not normally exceed the cost of financing, insuring and storing the metal over the future delivery period. (But see Cash and Carry.)

COVER: The balancing of an open position by buying or selling on the LME. It is also known as "cover in."

CUSTOM SMELTER: A smelter which depends for its intake mostly on concentrate purchased from independent mines rather than its own captive main sources, or on scrap. This type of operation has become more important in recent years. (See also Refinery.)

DAY ORDER (G.F.D.): An order placed with a broker which is valid throughout the rings and kerbs during the day on which it was placed. If not executed that day, it is automatically cancelled. If valid for all markets (that is pre-market, lunchtime, evenings) any instruction should clearly state "all markets." The order can then be executed at any time of the day.

DECLARATION DATE: The date on which the buyer's right to exercise his option expires.

DELIVERY DATE OR PROMPT DATE: The date on which a metal has to be delivered to fulfil the contract terms.

DEPOSIT: The initial outlay of money by a client which is required by his broker to justify the opening of a futures position. The size of the deposit is usually 10 per cent. of the value of the contract. (See also Margin Call.)

DOUBLE OPTION: An option which gives the buyer or taker of the option the right to either buy from or sell to the seller or giver of the option at the basis price.

END CONSUMER: A company in whose hands the identity of the fabricated metal is finally lost in a more complex product, for example, a refrigerator, motor car, transformer, etc. Some of these companies also have fabricating subsidiaries. (See also Fabricator.)

FABRICATOR (sometimes referred to as semi-fabricator): A company which transforms refined metal (and sometimes scrap as well) into semi-fabricated products, for example, wire, cable, tubes, strip, rods for sale to an end-consumer.

FORCE MAJEURE: The clause in a metal supply contract which allows either the seller or the buyer not to deliver or take delivery of the metal concentrate or scrap under the contract due to events beyond his control. Events justifying the declaration of force majeure vary widely and include unavoidable export delays in producing countries to strikes at the customer's plant. There is no force majeure clause in an LME contract. Customers affected by a force majeure by a producer or refiner can always turn to the LME as a source of metal.

GOOD TILL CANCELLED ORDER (G.T.C.): An order to buy or sell which is valid every market day during rings and kerbs (or during the entire day if specified) until cancelled by execution or client's instructions.

HEDGING: The establishment of an opposite position on a futures market from that held and priced in the physical commodity. Without hedging, the physical position could be at risk to price fluctuations.

INTEGRATED PRODUCER: A producer of metal who owns and, in some cases, fabricating plants.

INTER-MARKET: The period between the close of the morning kerb and the opening of the afternoon ring when LME members conduct inter-office dealing by telephone. This period is important because this is when Comex opens.

KERB TRADING: This is a period of 15 minutes at the end of each session (am and pm) where all metals are traded simultaneously around the Kerb trading is often expressed simply as "on the kerb" or "kerb." The term kerb comes from the early history of the commodity futures markets where trading after hours was literally conducted on the kerb of the street.

LENDING: Selling metal at a near date and simultaneously buying it back on a forward date, thereby extending a position.

LIMIT: In some futures markets (but not on the LME) there is a limit to the amount of price for a commodity can rise or fall during a given period. Once the limit is reached, trading is suspended until the time period is expired and trading resumes.

LIMIT ORDER: An order placed by a client to buy or sell at a specified price.

LIQUIDATION: The closing out of a long position. It is also sometimes used to mean closing out of a short position but this is more correctly referred to as covering or covering in.

LONG: An open purchase futures position. It also means

Continued on next page

Warehousing network

ALTHOUGH LARGELY unused, the whole operation of the London Metal Exchange hinges on a string of over 50 European warehouses at places as diverse as London, Liverpool, Newcastle, Swansea, Avonmouth, Birmingham, Manchester, Hull, Glasgow, Amsterdam (silver only), Rotterdam, Hamburg, Antwerp and Bremen. It is in these warehouses, all owned by private companies but strictly vetted and approved by the committee of the London Metal Exchange, that the LME contract takes physical shape.

Metal arrives at the warehouse basically from four sources—refiners, merchants, producers and consumers. Some of this metal, especially from consumers, is from surplus stocks held in times of slack demand. As part of the total LME service, a holder of surplus metal can place this in an approved warehouse, sell it as "cash" metal on the Exchange, and collect his money the next day.

When the metal arrives at the warehouse, copper, lead and zinc are divided into 25 tonne lots and tin into 5 tonne lots. Each lot is covered by a warrant drawn up by the warehouseman. Silver for delivery to LME approved vaults and warehouses is packed in lots of 10,000 troy ounces. All warrants list the type of metal, its exact weight and number of pieces, and the warehouse and its location. The warrant is in fact the unit of currency on the LME. It is used as a bearer document for financing the stocks held in the various warehouses and is a well-recognised form of collateral in the banking world.

All metal delivered into approved LME warehouses must be a registered LME brand. This is to ensure that the metal received will always meet the standard LME contract's dimensional and purity specifications. Taking standard zinc as an example, the metal listed under this contract must be "produced by distillation or electrolysis" and must be zinc of minimum 99.98 per cent. purity. It must also be delivered to the warehouse in slabs, plates or ingots weighing not more than 55 kgs. each.

Brand registration in itself is a pretty stringent exercise. A producer wishing to register his own brand of copper, for instance, must first submit his application through an LME subscriber and give an undertaking that the brand he wishes to register will conform to the particular quality and class demanded, and that the quality will be maintained in accordance with the samples submitted for analysis. This analysis is undertaken by two official assayers on the LME's approved list. At the moment the warehouses receive over 60 brands of lead from producers throughout the world, 80 brands of zinc, 50 of tin, and over 130 brands of copper wire-bars and cathodes—in addition to some 70 brands of silver.

So although the prime function of the warehouse is to ensure that each lot of metal to be put on warrant is of the correct weight and number of pieces, and that it is an approved LME brand, the actual warehousing operation is in fact much more sophisticated than the act of simply building large lumps of metal into neat piles. Many of these specialist companies use their expertise not only to stack and sort, and repack certain metals, but undertake ship chartering and provide full transit facilities and a whole range of other ancillary services.

The warrants the warehousing companies draw up represent entitlement to one lot of a particular metal. The LME broker delivers the warrant against payment by the client up to 14.30 hours on the prompt or settling day. The delivery points for the metal are at the seller's option, but the system has a good deal of flexibility, inasmuch as brokers are constantly changing warrants from one delivery point to another to suit the buyer. A purchaser may normally use a warehouse near his factory when collecting his metal. But if this warehouse does not have the particular brand he requires, it is usually possible to exchange warehouse warrants for metal in another

house conveniently situated near the warehouse.

The owner of the warrant is responsible for paying the rate for the metal stored. It varies slightly from warehouse to warehouse but it is still relatively cheap at about 15p a ton a week at the present time. Insurance is also the responsibility of the owner of the metal but this is also a fairly modest expense on the grounds that the material covered is virtually indestructible.

Prompt

Apart from its function of supplying industry with its prompt metal needs, the warehousing system ensures continuity of supplies despite the pressures of outside forces. Adequate stocks in LME warehouses ensure the needs of industry are met instantly. Several years ago, at the time of a serious U.K. dock strike, the existence of Continental warehouses proved to be of vital importance as European consumers were still able to obtain their marginal requirements of metal. Another extremely significant point is that in the long history of the London Metal Exchange deliveries of metal against LME contracts have never been delayed by production losses at source—whereas mining companies, in their contracts, have a "force majeure" clause by which they reserve the right to delay delivery of metal if they run into production troubles.

Finally, apart from their unique basic service to the industry, the stocks held by the warehouses act as a barometer to the world supply and demand situation through regular stock returns received from the warehouses and published once a week by the LME. Also, when stocks of most metals, particularly copper, were at unusually high levels last year (copper still is) the LME's approved warehouses acted as an industrial safety valve by allowing consumers to run down their own inflated stocks and to rely on the warehouses for additional supplies as and when needed.

Ian Dunning

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LONDON METAL EXCHANGE XIII

Aluminium prospects

EXPECTED new element reduce capacity in the U.S. brought into the calculation of the world's aluminium production this year by roughly 7 per cent of U.S. capacity. With the U.S. accounting for just under half total Western world output, a reduction will clearly have implications for supply and prices of aluminium over the next year, and the effects could be felt in Britain and Europe as well as in the U.S.

Industry's problems on the West coast of the U.S. look typically much more serious, and could have an impact on the aluminium market in Europe and throughout the rest of the world as the recession deepens. The lack of water for hydroelectric power generation after the driest winters on record. Some 25-30 per cent of U.S. aluminium industry is based in the North Western States, and in particular, Washington, a region to which were drawn originally by availability of cheap power.

Before Christmas, however, the main supplier, the Seattle Power Authority, has been unable to meet fully its commitments, and although negotiations have been taking place to secure extra supplies by using the lakes down even later, using water due to be used later in the year, and buying supplies from other areas, the first shutdowns are now beginning to take place. The biggest U.S. producer, Kaiser Aluminum, has closed one line out of its Vancouver plant in Washington, and Kaiser, the leading producer with smelters in the area, has it is only a matter of time before other companies are likely to be the same unless there is an unusually wet winter or spring, or some unexpected easing of the U.S. supply situation, the shutdowns are likely to be prolonged, probably lasting until next year, according to Stewart Specter, a leading aluminium analyst with Enghenier of New York, who of power threatens to

The latest cutback comes, furthermore, only after the settlement of the last in a series of strikes at Alcan stretching back to last June, which has resulted in the loss of about 350,000 tonnes of metal from the company's Canadian smelters, and at a time when poor prices and weak demand have meant very little new capacity is currently being installed. Thus although the relatively high stock levels means that supply will be available this year, the metal shortage which was being predicted for 1978-79 looks as though it will be brought forward.

The result over the medium term will almost certainly be a rise in prices which have been moving up around the world, but not as quickly in the U.S. as the producers had been hoping. With economies emerging gradually from recession total shipments rose last year in the U.S. from 4.6m. tonnes in 1975 to around 6m. tonnes, and, although the fourth quarter was disappointing with shipments falling behind the high levels achieved in the two preceding quarters, order books are now strong and deliveries in the first few months of 1977 are expected to be high.

Last year the U.S. producers put up the price of the metal in June and again in August to its present price of 48 U.S. cents per pound but in the case of semi-fabricated products difficulty was encountered in implementing the second round of rises. It is now widely expected, however, that against a background of increased production difficulties a further rise will take place in the ingot price before the middle of the year.

The U.K. market and some other European markets have perhaps surprisingly been somewhat stronger in price terms already, as the much improved results returned by Alcan U.K. for 1976 indicate. Alcan's listed metal price has risen over the past year by no less than half from £420 at the beginning of 1975 to £630. The rise, as the producers point out, has merely brought U.K. prices up to the U.S. equivalent after lagging behind because of strict price controls in 1974 and 1975. The increases which still leave the U.K. price behind that prevailing in France and Germany, also reflect the need for adjustments in the light of the substantial fall in value of sterling during the course of 1976, and the continuing high rate of inflation.

The aluminium companies' ability to implement the rises points nevertheless to the generally strong demand for the metal they have been experiencing over recent months. Though some customer industries in the U.K. such as motors and building have made only a partial recovery from the recession, export markets have been buoyant.

The unanswered question as far as the industry worldwide is concerned, is whether the improved market coupled with the tightening of the metal supply will now bring forward the investment required to sustain growth in demand in the 1980s. In the U.S. as in Britain the return to higher shipment levels has had its effect on the balance sheets of Alcoa, Reynolds and Kaiser, all of which are reporting higher earnings on their aluminium activities. This year should see a further improvement in profit. There has also been some slowdown in cost increases, though any price increase this year will be partially offset by the higher costs likely to be incurred as a result of problems in the North West. The impact of new energy and labour contracts has also still to be gauged.

The industry now reckons around 55 cents per lb to be the minimum price level needed to justify further investment and although some producers have obtained further capacity through acquisition, notably Kaiser, none of the U.S. majors has any plans for substantial new plant. At the same time the contribution which it was thought the new oil and bauxite rich countries might make towards the metal supply looks at best to have been delayed.

There is a gap therefore which will have to be filled before that date if the rate of growth in aluminium usage is not to settle permanently some way below the historic 7.8 per cent per annum rate of the post-war years. Ways and means of doing this are now being considered by all the big companies but major decisions may well be delayed until the market has shown its ability to sustain some further upward adjustments in price. The more rapid rundown in world stock piles which now seems likely if present production problems in the U.S. remain unresolved could see this begin to happen from the second half of the year onwards.

Rhys David

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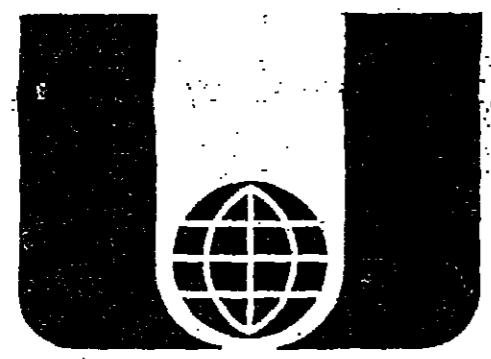
Language

CONTINUED FROM PREVIOUS PAGE

starting a transaction by the purchase of a futures contract. **MARKET ORDER:** An order to buy or sell a futures contract at the first obtainable price or prices on the market for the tonnage involved. **MARKET IF TOUCHED: OR M.I.T.** A term usually used by chartists. It means buy or sell at market if a certain level above or below the current price is reached. **MERCHANT:** A metal merchant—as distinct from a producer's agent or broker—often acts as a principal, buying metal or concentrates from producers and others and selling the metal on to others. He will often hold metal for his own account waiting for a buyer. **NOMINAL PRICE:** An estimate of the price for a futures month or date which is used to designate a closing price when no trading has taken place in that month or date. **OFFER:** The price the seller is asking for the commodity he is offering. **OPEN OUTCRY:** The method of dealing employed on the LME and other futures markets. The broker says for all to hear, Buy (or sell) X amount for a stated delivery date and a stated price. When another broker responds to take the bid or offer, the deal is fixed and that price becomes the latest traded price for the delivery date for the commodity. **OPEN POSITION:** A forward market position which has not been closed out. For some U.S. clearing house exchanges the important statistic and published daily. **OPTION:** An option gives the holder the right to buy from or sell to the grantor of the option in advance that the price basis will be the closing price of a specific ring or rings on the LME. The buyer will therefore be pricing-in on the close of that ring and will probably hedge his purchase by selling during the closing stages of that ring. **PRICING OUT:** Is exactly the opposite of the above where the seller is selling a quantity of metal at the closing price and will, therefore, hedge his sale by buying during the closing stages of the ring. **PRINCIPALS' MARKET:** A futures market where the ring dealing members act as principals for the transactions and they conclude across the ring and with their clients. **PROMPT DATE:** See delivery date. **PUT OPTION:** A put option gives the holder of the option the right to sell to the grantor of the option at any time before the expiration date a specified quantity of the commodity at an agreed price. A put option is bought on the expectation of a fall in prices. **REFINERY:** As distinct from a smelter which produces crude metal by treating mine feed (concentrate), a refinery produces high purity metal either by electrolytic or fire refining. In copper and lead, refining is always preceded by smelting, but in tin and zinc smelting and refining blend into one process of recovering marketable quality metal from concentrates. Refiners (and smelters) also treat scrap materials. **RING:** A trading period of five minutes on the LME; e.g. the first tin ring is from 12:10 to 12:15. **SECONDARY METAL DEALER:** A firm which specialises in buying and selling at any time before its expiration date a specified quantity of the commodity at an agreed price (basis or striking price). The cost of buying the option is called the premium. **PHYSICAL:** See Actuals. **PRE-MARKET:** Trading

open positions may show against current market values. **among brokers before the LME opens for ring-dealing. This can be a very active trading session on the market influenced by the hedging operations of producers and consumers. This is because the previous day's settlement price is still the valid producer price, usually until 11.30 am or mid-day. Consumers, therefore, are matching their sales to customers with price fixing on the producer price and then hedging the out of balance metal position on the LME. See back-pricing.** **FRICING IN:** Where a merchant agrees to buy a quantity of metal from a consumer both parties will agree scrap metal. The metal purchased and sold is often in alloy form (such as brass) and often in a fabricated form, but is always on risk from fluctuations in the value of the basic metal. Metal recovery is very important throughout the world. Copper scrap, for example, accounts for about 40 per cent of all copper consumption. **SEMI-FABRICATOR:** See Fabricator. **SESSION:** There are two sessions on the LME each day. One in the morning and one in the afternoon. Each session comprises two five minute "rings" for each metal and a 15 minute "kerb" period. **SHORT:** Starting a transaction by the sale of a futures contract. An open sold position on a futures market. **SPOT MONTH:** This term, which does not apply to the LME, means the first deliverable month for which a quotation is available on a futures market. For example, "March is now the spot month on Comex." **SQUEEZE:** Pressure on a particular delivery date which makes the price of that date firmer in relation to other dates. **STOCKIST:** A stockist is one who holds stocks of semi-fabricated products ready for sale to users. Stockists usually specialise either in steel/stainless steel/aluminium or in copper/brass/high value metals. A stockist function is also fulfilled by, e.g. a builders' merchant who holds large stocks of copper tubing or plumbing fittings. **STOP LOSS ORDER:** An order which becomes a market order to buy only if the market advances to a specified level or to sell only if the market declines to a specified level. As soon as this specified level is traded the order is executed for the client at the next obtainable price. There is no guarantee the order will be executed at the price specified. A stop loss order, as its name implies, is instituted to prevent or minimise losses in either a short or long position. **STRIKING PRICE:** See Basis price. **SWITCHING:** On the LME switching simply refers to exchanging metal in one warehouse for that in another, e.g. Rotterdam for London. **TENDER:** Delivery of the physical commodity against a futures contract. **TURNOVER:** See Volume. **VALUE:** An LME term referring to a price which is traded in a volume sufficient to satisfy the current buyers and sellers at that price i.e. there are neither buyers nor sellers "over" at that price. **VOLUME:** The quantity of business or transactions done. Also referred to as turnover. **WARRANT:** The document of title to metal stored in an LME registered warehouse. The warrant is a bearer instrument and states brand of metal, weight, number of pieces etc. A term also the same way as "lot."

Source: Wolf's Guide



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Let's take a look at the old scoreboard!

Accurate timing is vital for successful trading in metals and EUROCHARTS TIMING INDICATOR'S BUY and SELL signals have proved highly successful in identifying when changes of price trend can be expected. On COPPER for instance, the Timing Indicator's recommendations over the last six months were:

DATE	RECOMMENDATION	PRICE LEVEL (3 MONTHS)
23 September	BUY	£868
4 October	SELL	£880
21 October	BUY	£830
17 November	SELL	£830
9 December	BUY	£797
11 January	SELL	£835
13 January	BUY	£823
28 January	SELL	£876

(Up to close 8th February 1977)

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LONDON METAL EXCHANGE XIV

International involvement

JAPAN

On this and the next page, our foreign correspondents look at the attitudes to, and involvement in the London Metal Exchange of some of the countries, both producers and consumers, which use it as a base for trading

SOUTH AMERICA

THROUGHOUT MUCH of last month the letters LME were printed in bold type on the front pages of newspapers of La Paz as the price of tin touched record heights. The same has happened in the past in Chile and Peru when there have been violent fluctuations in the prices of other metals, notably copper.

The importance of the mining industry in all three countries ensures that what happens on the Ring in London is always of vital importance to the economy and often to the politics of the three Andean countries.

Though the three are not dependent on their metals as Guyana and Jamaica are on bauxite, Bolivia relies for 10 per cent of its gross national product on the mining sector, Chile 8 per cent, and Peru 6 per cent. Together the three countries' exports account for about two-thirds of the total mining exports of Latin America which are valued at about \$3.2bn. a year.

Mining is a big provider of jobs (60,000 or 3.9 per cent of the work force in Bolivia, 90,000 or 3.5 in Chile and 70,000 or 1.6 in Peru) but it is as a provider of foreign exchange that metals and ores are the most vital to all the countries. Bolivia and Chile depend for about 80 per cent of their foreign income on the products of the mining sector and in the case of Peru it is about 50 per cent.

Marginal

It is no exaggeration to say that the prices of metals fixed in London—though they often refer to marginal amounts of metal not covered by long-term agreements—between supplier and purchaser—are the principal thermometer measuring the economic health of the three countries referred to.

In view of the sharp fluctuations that take place in LME prices it is hardly surprising that all three governments have very mixed feelings about the world institution which reflects in the sharpest way their dependence on the vagaries of international demand.

In the first instance it is in the interest of the Chileans, Bolivians and Peruvians to get the best deal they can out of the LME. This is reflected, for instance, in the large office in Bush House, Aldwych, maintained by the Chile Copper Corporation.

It will be reinforced in the next few weeks when a big new Peruvian trade centre is inaugurated here including premises for Mineroperu, the State mines organisation.

The staffs of the three am-

Hugh O'Shaughnessy



Gillean MacLaine founder of MacLaine, Watson & Company

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FINANCIAL TIMES EUROPE'S BUSINESS NEWSPAPER

JAPANESE non-ferrous metal industrialists and traders sometimes view the LME with a combination of envy and criticism, especially in regard to copper trading. But on the whole they expect to make more use of its facilities in future. Of course, proposals have been advanced for the establishment of a Tokyo metal exchange and introduction of a producers' price system, but a plan to set up a Tokyo warehouse of the LME seems to be under more serious consideration.

A few Japanese firms operate on the LME through joint ventures with ring members, but their operations are officially limited to hedging under foreign exchange restrictions enforced by the Japanese Government, which currently bans copper exports and imposes duties on copper imports. Mr. Akira Fujisaki, president of the Japan Mining Association, said recently that, in his personal opinion, producer and consumer nations should consider adopting a producers' price system for the world copper market to stop wide price fluctuations on the LME.

Both producer and consumer countries have been suffering seriously from erratic fluctuations of world copper prices. Mr. Fujisaki said. Moreover, he continued, development of new copper mines is not feasible at the present copper price level, so a serious copper shortage could emerge by 1985.

Discussions

If the current discussions at the UN Conference on Trade and Development (UNCTAD) on ways to stabilise the copper market bog down, it will be worthwhile for producer and consumer countries to get together to consider introducing a producers' price system, he said, adding that this, however, presupposes that producer countries are willing to and capable

of curtailing their copper output. Mr. Shimpei Omoto, president of Mitsui Metal Mining and Smelting, said at the London Metal Forum last October that there are many copper producing countries that "cannot freely use the metal market because of their restrictive laws and regulations concerning foreign exchange, and export and import trade."

Earlier last year, Mr. Yoshihiro Inai, president of Mitsubishi Metal Industries, suggested the establishment of a metal exchange in Tokyo, in order that Japan and other countries in the Far East may have more say in the forming of world copper prices. He also said that the LME should be placed on a U.S. dollar basis, instead of sterling, to reduce the effects of sterling fluctuations on copper prices.

But since such a plan would need large funds and take a great deal of time to materialise, Mr. Fujisaki added that the creation of a Tokyo warehouse of the LME might be a more practical solution. The Japan Brass Makers Association said it is pushing ahead with a plan to seek the setting up of the Tokyo warehouse of the LME for the stabilisation of copper prices in Japan. The

Association's raw materials committee has reached the conclusion that an LME warehouse in Tokyo would benefit both copper producers and users in Japan, and is now trying to bring the Japan Cable and Wire Manufacturers Association, another group of users, round to this view.

The Association said relaxation of foreign exchange and foreign trade controls by the Japanese Government would be needed if the plan was to succeed.

Warehouse

Japanese companies concerned should be allowed to have enough foreign exchange to be free to import and export copper for an LME warehouse in Tokyo to function effectively.

If the Cable and Wire Manufacturers' Association agrees to the Brass Makers' Association's plan, the latter will seek the support of the Japan Mining Association before presenting the scheme to the Japanese Government for approval.

Three years ago the Japan Wrought Copper Council sounded out the International Wrought Copper Council on the possibility of setting up a Tokyo warehouse. At the time, ring

members of the LME indicated they would have no objection to such a measure. Japan consumes 800,000 tons of copper annually and imports 500,000 tons of copper-ore and concentrates (in terms of metal) and more than 200,000 tons of electrolytic copper, the remainder being covered by domestic ore. Exports of electrolytic copper from Japan have been banned since 1974.

To reduce growing copper stocks here following the ban on electrolytic copper exports, Japanese copper smelters negotiated for cutbacks in the shipments of copper ore and concentrates from producing countries to Japan—with only partial success—in 1975 and 1976. Japanese smelters say the ban on copper exports did not attain its objective of stabilising world copper prices, which fell steeply in 1974. They also complain that other advanced industrial countries were freely selling their copper on the LME, while Japan stopped its exports.

In these circumstances, the smelters say they would like to see the export ban lifted whenever such a measure is considered feasible by the Japanese Government.

Saburo Matsukawa

AUSTRALIA

AUSTRALIANS tend to be only lukewarm about the LME. Although they are a nation of gamblers, LME speculative facilities are generally not available to them. With an economy that leans heavily on exporting minerals, they are often frustrated by LME prices—but no more so than their customers. And there is an ambivalence in Australia's part in the ongoing "North-South dialogue" that aspires to produce an alternative to the free market that the LME exemplifies.

But the consensus is that while this market is imperfect, it is the best there is. For the LME market sets the price, sometimes indirectly, for nearly all Australian non-ferrous metal transactions. As a Western Mining Corporation spokesman put it: "As a long-established institution with a history of practical commercial dealing, its survival is a commentary on its usefulness to most of the industry most of the time."

While this is the industry view there is a slightly different bias from Government, or perhaps more correctly from the Government bureaucracy. Although Australia has made it clear it will not be a party to unilateral pricing, it has had observers in Geneva for the proposals being worked out between CIPEC and UNCTAD. Australia is an associated member of CIPEC and has aligned with UNCTAD in most of its international bauxite Association initiatives. And of course the Australian Government has a floor price under wool, traditionally the country's main product until the 1960s mining boom.

As mining men point out, bureaucrats rather like the idea of a market they feel they can control. The fundamental difference between metals and wool is Australia's relative shares in the world market for wool compared with its leverage on LME metals, a situation compounded particularly by the high scrap components in copper and lead that removed a high proportion of the total from the conventional market places.

The LME's relatively more unstable prices are seen from Australia to be the result of three main factors. First, most metals are traded directly between producer and consumer, making this a residual market drawing supplies from controlled as well as free economies and meeting only the marginal requirements of consumers. Secondly, it is affected unduly by market sentiment, particularly its propensity for moving in counterpoint against

the trend of sterling. Finally, and most of all, it is considered vulnerable to highly-g geared speculators who have no long-term interest in the commodities they trade. Although inherently gamblers themselves, mining men speak disparagingly of chartists, speculators and currency hedgers, and regard them as a danger to their industry. "The Australian public would like to speculate on the LME," says Mr. Rudolph Busch, a manager for commodity futures brokers Robert Howes, "but they are stopped by Reserve Bank stipulations that permit only genuine hedging. So only Australian producers and people who physically buy the metals are able to make use of LME facilities."

Australia has a unique place in the North-South debate that is focusing on UNCTAD. Geographically part of the southern bloc it has taken its place without debate as a member of the northern or developed nations' team, rather than with its fellow raw materials producers among the less developed countries.

Initiatives

UNCTAD initiatives for trying to iron out the bumps and troughs that concern and sometimes ruin Australian miners are rejected as pie-in-the-sky, as commendable as the aspirations may be. The LME reflects this volatility, and although attacking the LME for the volatility is rather like blaming the thermometer for the temperature, some producers maintain it aggravates unsettled prices.

There are no indications to suggest, one of Australia's major producers says, that cyclical patterns of metal demand generally and for zinc in particular, are likely to become more stable. Fixed investment expenditure, the ultimate source of more than two-thirds of zinc demand, is expected to face a particularly uncertain time, setting a real problem for Australia, which ranks third after Canada and Peru in terms of exportable surpluses.

Under such conditions of demand fluctuations the presence of an LME pricing system could lead to instability, compounding instability. Investment decisions, bearing in mind the substantially higher capital required to establish new mines and smelters, could be further inhibited. "The outcome, this producer warns, could be substitution and withering demand."

MIM Holdings, the company that runs Australia's main copper producer at Mount Isa, stated its attitude to the LME

last year before the prices justification tribunal—a guarded affirmative.

MIM's chairman Sir James Foots rates the LME "the best indicator we have on price. It is the basis for our copper sales in Australia and for our copper and lead sales overseas." He sums up the industry view when he adds: "It is alleged that there are some shortcomings to the LME and this is illustrated by the referral by CIPEC nations of the matter of copper pricing to UNCTAD. But in general terms the average of the LME price over the long term, volatile though it may be, is that price necessary to maintain supplies to the market."

Donald Lipscombe

Advertisement for Delta Extruded Metals Co. Ltd and Enfield Rolling Mills Ltd. Features a large image of a metal component and text: 'A magnum of congratulations to The London Metal Exchange on their Centenary from Britain's Leading Manufacturers of non-ferrous semis'. Includes contact information for Delta Extruded Metals Co. Ltd and Enfield Rolling Mills Ltd.

مركزنا للصين

LONDON METAL EXCHANGE XV

معلومات الاصل

UNITED STATES

LONDON Metal Exchange most U.S. buyers of metals point is an enigma. Its con-
 eration of terminology—
 angos, backwordations, arbi-
 spot, prompt—and the
 y of activity and discussion
 surrounds it leaves the
 U.S. buyer pondering
 it is about.

Buyers here have known that
 LME often plays a role in
 ending the price they may
 for copper, lead, zinc or tin.
 how the LME works, and
 they can use it in their own
 basing operations, remains
 and their thinking.

There are many reasons why
 buyers stay at a distance
 the LME. Most noticeably,
 have had a history of pur-
 ing their metals directly
 producers. Copper, lead,
 and silver were generally
 tant in the U.S. during its
 strial development, and the
 ght of hedging against
 tages, political policies and
 a increases was just not
 s. The producers could
 ys supply them with metal
 a regular basis—a steady,
 ble, abundant source.

sondly, Americans by their
 nature are not a bartering
 le. They are the type of
 umers who walk into any
 est establishment pay the
 e as listed. They are not
 istomed to dickering for a
 e—consequently the concep-
 n exchange with its bid and
 ctivity is foreign to them.

wareness

ven to-day with the greater
 reness of exchanges in the
 the majority of metals
 ra do not participate in
 l. What may compound
 reluctance even more is
 cent creation of the com-
 ity futures trading commis-
 signed to monitor the
 ity of exchanges, which in-
 y implies that all may not
 oper in such operations.

is small percentage of
 is buyers who do know and
 the London Metal Exchange,
 urse, do not view it in this
 er, and it appears that
 set is developing in the
 on Metal Exchange as a
 et medium in the U.S.

ch of this interest by U.S.
 rs has developed in the past
 years because of inflation
 recession in the economy
 because they want a new
 of solving some of these
 ems. Consequently, there
 been more than normal

SCANDINAVIA

ing to assume that this
 American attitude is changing
 rapidly. For the most part,
 American metals executives
 remain suspicious of the LME.

Further supporting their
 reluctance to become involved
 in the U.S. anti-trust laws which
 forbid producing companies
 buying and selling their metals
 on the Exchange in fear that
 they could fix prices. This
 Government attitude was
 recently displayed in the zinc
 investigation last summer. The
 U.S. Justice Department is
 currently conducting a study of
 the European zinc producers to
 find out if their support of the
 zinc price on the LME in 1976
 was actually a manipulation of
 prices. Although it seems
 awkward for the U.S. Govern-
 ment to be putting its nose into
 the European zinc industry, it
 can take action in the form of
 duties and tariffs on zinc
 coming into the U.S. from these
 producers.

This Government stance only
 serves to further the arguments
 that the U.S. buyer of metals
 best not become involved with
 the LME.

But curiosity still remains
 and is growing in the minds of
 American metals buyers as to
 possibilities that do exist for
 them in using the London Metal
 Exchange. Perhaps the next 100
 years of its existence will show
 more U.S. involvement in what
 has already become a very
 important market medium in the
 international metals world.

Pat Walker
 Editor, American Metal Market

W. GERMANY

WEST GERMANY, as the
 world's third-largest buyer of
 raw materials with a bill close
 to DM10bn. last year, would find
 life difficult if the London Metal
 Exchange did not exist.

In practical terms, prices for
 three of the four base metals
 traded on the Exchange—
 copper, tin and lead—are taken
 as the direct basis of trans-
 actions, after adjustment for
 currency fluctuations. The LME
 zinc price is hardly less
 important, although the German
 producer price for the metal
 can, as at present, diverge quite
 widely from the London level.

While the LME is thus an
 inseparable part of the West
 German metals business day-to-
 day, it coincides with the
 country's prevailing economic
 philosophy of leaving such
 matters as pricing goods to the
 free play of market forces
 wherever possible. It is a
 striking fact of life that no sig-
 nificant political grouping in
 the country advocates any fun-
 damental change in this
 economic order. The "social
 market economy," as West Ger-
 many call it, has proved itself
 by making the country rich,
 keeping it relatively well insu-
 lated from world recession, and
 offering it every chance of con-
 tinued prosperity. Why tamper
 with something that, for West
 Germans, has worked so well up
 to now?

Such is also the basis of the
 West German approach to the
 current problems of the inter-
 national economy, and in no
 sphere has this been more
 clearly seen than in the debate
 over the Third World's plans
 for the strict regulation of trade
 in key raw materials. At the
 Nairobi meeting of the United
 Nations Conference on Trade
 and Development (UNCTAD
 IV) last year, Bonn came close
 to diplomatic isolation because
 of its refusal to contemplate
 such grand designs as the
 UNCTAD Secretariat's inte-
 grated commodity fund or its
 call for a "global solution" to
 the poorest countries' debt
 burden.

In part, West Germany's atti-
 tude was—and still is—the
 understandable hesitation of the
 rich man who fears that the out-
 come of other people's
 generously conceived plans
 would be to soak him. Much
 more important is the belief
 that regulation of trade would
 both tie up huge sums that
 could be better used, and would
 sooner or later cause distortions
 of prices and production worse
 than those it set out to cure.
 Further, West German officials
 point out that so far as this
 country's trade pattern is con-
 cerned, the main beneficiaries of
 artificially fixed raw materials
 prices would not be the poorer
 Third World nations but the
 industrialised countries which
 are also major minerals ex-
 porters, such as Canada, the
 U.S., Australia, South Africa,
 Sweden and the Soviet Union.

Estimates

Although exact figures, or
 even reliable estimates, are
 impossible to come by, it seems
 probable that West German
 industry is the largest single
 consumer of physical metals
 transactions through the LME
 in Europe. The Exchange itself
 has acknowledged this ex-
 tremely large element in its
 business with the location of
 four of its warehouses at Euro-
 pean ports convenient to the
 West German market—Rotter-
 dam, Bremen, Hamburg and
 Antwerp.

German connections with the
 LME are nearly as old as the
 Exchange itself. Metallgesell-
 schaft, the largest West German
 company in the base metals
 industry, can trace its dealings
 back to the end of the past
 century, when its predecessor,
 Henry R. Merton, was one of
 the early users of the Exchange.
 The group is now, through its
 London subsidiary Metallgesell-
 schaft Ltd., a ring member of
 the LME—the first and so far
 only member with West
 German capital, primarily be-
 hind it, in which the Japanese
 company Nisho-Iwai has a 10
 per cent interest.

Metallgesellschaft's direct
 membership of the LME was
 regarded as something of a test
 of the City's willingness to
 admit foreign participants into
 institutions as close to its heart
 as the metals market when it
 was introduced in 1971. As the
 company sees it now, this direct
 participation is an indispensable
 part of its self-protection as a
 fabricator able to hedge, in
 addition to direct involvement
 in the mechanism which sets the
 price of its raw materials.

So far the example has not
 been followed by either of the
 other two giants of the West
 German metals sector, Preussag
 in the lead and zinc markets
 and Degussa in the precious
 metals sector, although both
 companies are of course among
 the major customers of LME
 brokers.

Misgivings

In spite of these misgivings,
 the Bonn Government may find
 itself obliged for the sake of
 European Community politics
 to go along with at least a
 minimal compromise when the
 North-South Conference in Paris
 finally gets down to serious dis-
 cussion of the commodities
 question. Little has been
 achieved so far by a joint
 Franco-German committee set
 up last summer to work out the
 basis of a joint EEC approach,
 however.

If it were left to the West
 German private sector to offer
 solutions, the advice to copper
 producers in particular, would
 doubtless be to make better use
 of the LME on their own

Adrian Dicks



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Dim outlook for Euro-polls

CREATION of a directly elected European Parliament, as now envisaged, will be one of the stated aims of the EEC ever since it was set up nearly 20 years ago. It is explicitly provided for in the Treaty of Rome, which envisages the current parliament of representatives nominating their parties merely as a step towards the final goal of a directly elected assembly.

When the Government of the Nine finally got around to drawing up arrangements for the new assembly and the timing of its first meeting, they were met with a surprisingly lukewarm reception. It is now generally expected that the Parliament will be elected in 1978, but the Government has been unable to agree with the other member States on the number of seats and the method of election.

The Government's proposal, which is based on the principle of one Member of Parliament for every 100,000 inhabitants, has been rejected by the other States. The French Government, which is the main proponent of the proposal, has been unable to secure agreement on the number of seats and the method of election. The other States are generally in favour of a smaller number of seats and a system of proportional representation.

The Government's proposal, which is based on the principle of one Member of Parliament for every 100,000 inhabitants, has been rejected by the other States. The French Government, which is the main proponent of the proposal, has been unable to secure agreement on the number of seats and the method of election. The other States are generally in favour of a smaller number of seats and a system of proportional representation.

when the devolution controversy has swamped parliamentary agenda and sharpened political sensitivities to questions of sovereignty to a fine edge. That further advanced than in Britain, and the practical details of implementation have been subjected to more intensive scrutiny and discussion.

The French Government has removed another potential stumbling block by opting for a system of proportional representation using national party lists. This has pleased the Socialists, who feared that a constituency system could easily be rigged against them, as well as the Gaullists, who are keen to prevent separatist movements in Brittany and other regions from acquiring wider recognition at the European level.

In Ireland, the Government has already disclosed the main thrust of its proposals, and it is hoped that they can be approved by Easter. It has chosen to divide the country into four constituencies, with a single transferable vote. It has also proposed that citizens of other EEC countries resident on its soil be permitted to vote for Irish Euro-candidates.

The two Continental countries where legislation for direct elections faces the greatest uncertainty are Denmark and Belgium. The Danish Government originally suggested that the country might be able to take part in the first elections because of constitutional difficulties. It has since dropped its reservations.

The German Government has already published a draft bill, now being studied by the political groups. Except for three Euro-members from West Berlin who will be nominated, it provides for full proportional representation. The main question is whether party lists should be drawn up on a national basis, as the Government would like, or for the individual Länder.

In Italy, where the Government has also published a bill, political opinion appears to favour regional lists, though European elections the regional boundaries may be redrawn to ensure a reasonable representation of smaller parties. In the

country should be divided into two constituencies or three, with Brussels as a separate electoral district. While the new Euro-MPs will be allowed also to sit in their national parliaments, the sheer physical strain of exercising a dual mandate suggests that most will not. It is widely acknowledged that if their activities are to have any relevance to political problems in the EEC, they must be able to retain links with their national parliaments.

A variety of possibilities are being studied: in Britain the Select Committee recommended the creation of a "Grand Committee" composed of British Euro-MPs and the two EEC scrutiny committees in the Lords and the Commons.

In parallel with these deliberations, efforts are being made to equip themselves to fight direct elections. The greatest progress has been made so far by the Christian Democrats; parties from every EEC country except Britain and Denmark banded together last year to form the European People's Party, a trans-national group committed to European federalism and presided over by Mr. Tindemans.

The Socialists are working through the Confederation of

	September, 1973			November, 1976		
	For	Against	Total	For	Against	Total
Luxembourg	67	12	21	77	9	14
Italy	74	12	24	77	8	15
Germany	69	12	19	76	19	14
Netherlands	62	16	22	74	11	15
Belgium	52	14	34	69	9	22
France	41	18	31	69	13	18
Ireland	45	31	24	68	14	23
U.K.	33	49	18	57	22	21
Denmark	36	43	21	42	37	21
COMMUNITY†	54	23	23	69	14	17

* 1973—Not including Northern Ireland.
† Weighted average. Source: European Parliament.

The Directly Elected Assembly SEATS AND POPULATIONS OF MEMBER COUNTRIES

Country	Seats	Share %	Pop.	Share %	Pop. per member
Belgium	24	5.85	9.3m.	3.77	470,167
Denmark	16	3.90	5.0m.	1.95	215,750
West Germany	81	19.76	62.0m.	22.93	765,928
France	81	19.76	53.3m.	20.77	662,951
Ireland	15	3.66	3.1m.	1.19	205,733
Italy	81	19.76	55.4m.	21.35	638,469
Luxembourg	6	1.46	0.4m.	0.14	59,500
Netherlands	25	6.1	13.5m.	5.19	538,000
U.K.	81	19.76	56.1m.	21.65	692,049
COMMUNITY	410	100	259.1m.	100	631,598

Source: European Commission.

Letters to the Editor

selling well
Dear Sir,
I am writing to you regarding the sale of my property. I have received several offers and I am pleased to hear that the property is selling well. I will be in touch with you again once a decision has been reached.

BR fees—not fines
From Mr. A. Scott.
Sir, I read Mr. Stern's remarks (February 11) about the Continental system of control over the railways. I would like to point out that the current system is not a fine but a fee. It is a charge for the use of the railway and is not a punishment for any offence. The system is fair and reasonable and it is essential for the efficient running of the railway.

Creating wealth

Creating wealth
Dear Sir,
The letters from Mr. L. V. Bridwell and Mr. W. L. Russell are interesting. They discuss the importance of creating wealth and the role of the government in this process. It is clear that there is a need for more investment and development in order to create jobs and improve the standard of living. The government should encourage private enterprise and provide the necessary infrastructure and support.

Index-linked pensions

Index-linked pensions
From Mr. T. Layburn.
Sir, I cannot see how Mr. Weetman can assert that the deduction made from Civil Service pay to take account of index-linking of pensions is inequitable. It is a necessary measure to ensure that pensioners are able to keep up with the cost of living. The deduction is based on the rate of inflation and is a fair and reasonable way of adjusting pensions. It is not a punishment and it is essential for the long-term sustainability of the pension scheme.

Insulation standards

Insulation standards
Dear Sir,
I am writing to you regarding the proposed insulation standards for new buildings. I believe that these standards are necessary to improve energy efficiency and reduce the environmental impact of the building industry. It is important that these standards are properly enforced and that all new buildings comply with them. This will help to reduce energy costs and contribute to a more sustainable future.

Civil Service pay

Civil Service pay
From Mr. P. Brooke.
Sir, I am writing to you regarding the proposed pay increase for Civil Service staff. I believe that the proposed increase is excessive and does not take into account the current economic conditions. It is important that Civil Service pay is linked to the performance of the Civil Service and to the needs of the public. A more modest increase would be more appropriate and would ensure that the Civil Service remains an attractive and efficient organisation.

To-day's Events

- GENERAL**
Joint meeting of Cabinet and Labour Party National Executive considers possibility of closer liaison.
TUC Economic Committee resumes consideration of future pay strategy.
CBI Council meets.
Mr. Edmund Dell, Trade Secretary, addresses Air Transport Section of London Chamber of Commerce on future civil aviation policy, with special reference to negotiations with I.L.O. on Cannon Street, E.C.4, 11.30 a.m.
Sir Robin Gillett, Lord Mayor of London, attends Dyers' Company dinner, Dyers' Hall, F.C.4.
- PARLIAMENTARY BUSINESS**
House of Commons: Scotland and Wales Bill, committee.
House of Lords: Debates on Snowdon working party report on integration of the disabled; on Court Committee's report on child health services.
Select Committees: Nationalised Industries (sub-committee C), Room 15.
Subject: Horse Race Totalisator Board. Witnesses: Home Office officials and Dr. Shirley Sumner, MP (4 p.m., Room 8).
Expenditure (Education, Arts and Carrington Vivella (full year), United Dominions Trust (half year).
- COMPANY MEETINGS**
Burton Group, Leeds, 12. Comp. Air, Great Eastern Hotel, E.C.4, 11.30. Land and House Property, Winchester House, E.C.10, 10.30.
Martin the Newsagent, Connaught Rooms, W.C.2, 12.
OPEA, English National Opera production of Der Rosenkavalier, Loll-seum Theatre, W.C.2, 7 p.m.
- BALLET**
Royal Ballet dance The Taming of the Shrew, Covent Garden, W.C.2, 7.30 p.m.

FEEDING

Kubota is down-to-earth about the answer to man's growing need for food. Our tractors are hard at work all over the world—bringing compact power into every crop from paddy fields to vineyards. They're built all over the world too, by joint companies using Kubota technology and local labour—in Brazil, Iran, Indonesia, Malaysia and Taiwan.

With four wheel drive, a unique fuel-saving diesel engine and a range of sizes to increase food production from market garden or giant farm, Kubota tractors keep cropping up. That's why we say, when it comes to feeding tomorrow's world, at Kubota we're exceeding our quota.



See Kubota's world in detail, in colour. Write to John Croft, Marubeni, Whitley Bridge, N. Yorkshire, DN14 0RX.

exceeding our quota

هاتفان الرصيف

Overseas profits boost Macpherson to £2.7m.

Overseas profits from exchange gains... Donald Macpherson Group... £2.7m.

Investments benefits come to Aaronson Bros.

Investment programme of expansion over undertaken by Aaronson Bros...

BOARD MEETINGS

The following companies have notified dates of Board meetings...

Advance for Evode to £1.45m.

BETTER pre-tax profit of £1.45m... Evode Holdings for the 52 weeks to September 25, 1976...

24% rise at Cable Trust

ON GROSS REVENUE of £9.7m... Cable Trust for 1976 rose 24 per cent from £4.13m to £5.12m...

HARDYS & HANSONS LIMITED

Overall market share again increased

- Turnover is up from £6.7m to £8.2m... Sales by volume of our own brewings show a slightly larger percentage increase than those for the country as a whole... We are engaged upon long term plans for extending our brewing capacity...

Overseas and export growth has provided the main impetus behind Donald Macpherson's 77 per cent rise in 1976-77 profits...

Ramar reaches £0.13m after six months

Turnover at Ramar Textiles increased from £2.7m to £3.5m... Ramar Textiles for the 6 months to October 31, 1976...

Investors Capital Trust

The policy objectives published yesterday for Investors Capital Trust were historical. They were implemented in February 1974...

Increase at Meldrum Trust

Net revenue of Meldrum Investment Trust for 1976 rose slightly from £24,636 to £359,065...

RECENT ISSUES

EQUITIES

Table with columns for company name, share price, and volume. Includes Anglo-American, Anglo-Siam, Anglo-Texaco.

FIXED INTEREST STOCKS

Table listing various fixed interest stocks and their prices.

"RIGHTS" OFFERS

Table listing rights offers for various companies.

Announcement date usually last day for dealing free of stamp duty...

BIDS AND DEALS

More Milgo shares for Racial

Racial Electronics announces that pursuant to its current offer for Milgo Electronic Corporation...

SMURFIT PAYING £3.2M FOR REST OF TIME INDS.

Jefferies Smurfit, the Irish packaging, printing and distribution group...

HERBERT MORRIS LTD

Summary of Results

Year ended 31st Oct. 1976

Table comparing 1976, 1975, and 1974 results for turnover, profit, and dividends.

As previously announced, the dividend of 10p has been approved by The Treasury.

- The Group has achieved a significant improvement in profits. Benefits are now accruing from the substantial capital investment programme of the last two years.



Herbert Morris Limited North Road, Loughborough, Leicestershire. Telephone: 0509 63123.

SMURFIT PAYING £3.2M FOR REST OF TIME INDS.

Jefferies Smurfit, the Irish packaging, printing and distribution group...

STAVELEY/GEORGE SALTER

Acceptances received by Staveley Industries in respect of its offer for George Salter...

SMC/PE TALKS OFF

Science Management Corporation, the U.S. group, is not to proceed with its plan to acquire a controlling interest in P-E International...

NO PROBES

The proposed mergers between Staveley Industries and George Salter and Co. Arzo Group...

UNOCHROME

Unochrome International has been notified by Jorehaut Holdings of the purchase of 50,000 shares...

PLANTATION HLDGS.

Imhof-Beck, the light engineering division of Plantation Holdings...

ASSOCIATE DEALS

James Capel has bought 2,900 White Child and Boney at 85p non-assented...

MERU/JOHN MADDOCK

Meru Group is to acquire 51 per cent of the Ordinary shares of Meru...

WATSON & PHILIP ACQUISITION

Watson & Philip, the Scottish food distributors, have acquired with effect from February 14, 1977...

W. Canning Limited

Highlights from Chairman's statement for the year ended 31st December 1976

- Sales and profit margins increased in a difficult year. Further progress expected in 1977 with increased orders for Engineering activities and increased penetration into export markets...

SUMMARY OF GROUP RESULTS FOR YEAR

Table comparing 1976 and 1975 results for sales, profit, and dividends.

W. Canning Limited - Great Hoxton Street, Birmingham, B10 5AS. The largest manufacturers in the EC of plate and material for metal finishing.

SIMON FOOD ENGINEERING

Simon Food Engineering Group has purchased the drawings, design stock and work in progress of J. W. Greer...

THE PROPERTY SURVEY THAT PROVIDES MORE THAN JUST STATISTICS

An Analysis of Commercial Property Values 1962-1976

Advertisement for Michael Laurie & Partners, featuring a large image of a survey report and text describing their services in property valuation and investment.

مقالات الأعمال

STEEL STOCKHOLDING

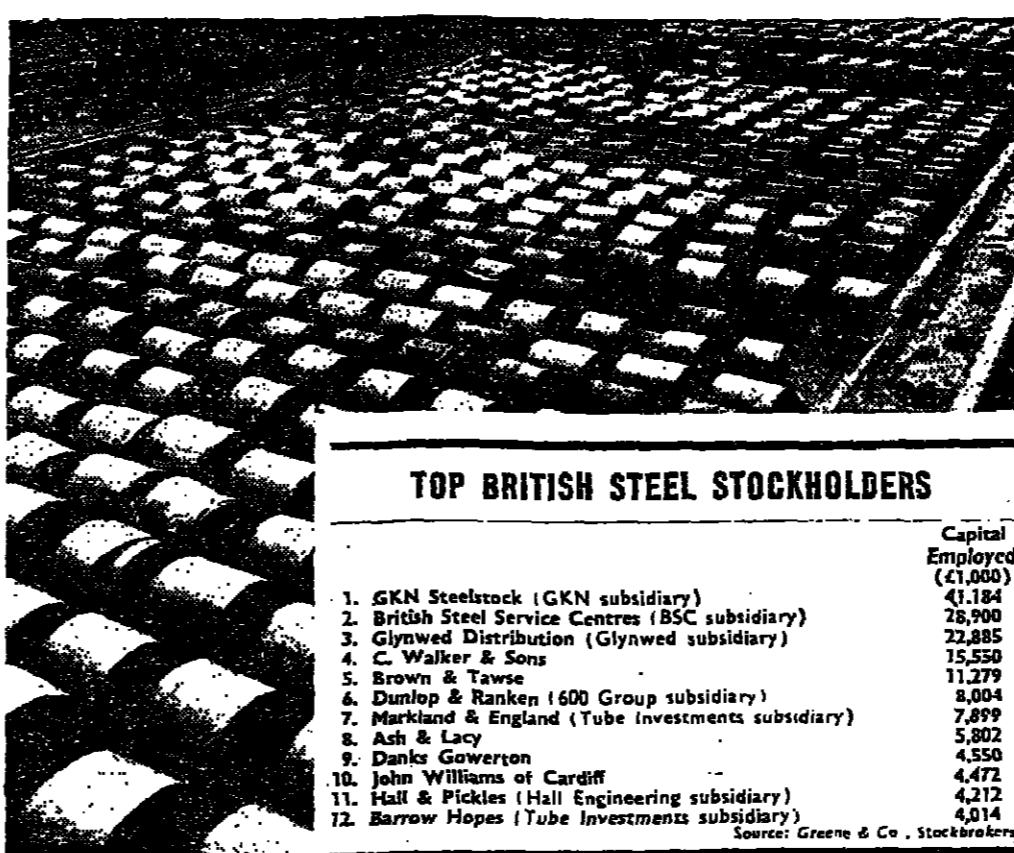
What happened when the beer ran out

BY ROY HODSON

esen up 5m. STRIAL ITED

CLUB had two new "We are shooting at 15 per cent. of the stockholding business while the market is dead. The impression among stockholders is that the corporation will temporarily defer its ambition to secure 15 per cent. of the general steels market. BSSC may simply mark time in steel stockholding. Or it may continue to grow slowly by making acquisitions if the current harsh trading conditions drive one or more general steel stockholders to seek shelter under the BSSC umbrella. Either way the state of affairs can be no more than transient. In the longer-term BSSC will pursue its ambition until it has secured its 15 per cent. share of general steels stockholding. BSSC and GKN will then together hold one-third, perhaps more, of the total British steel stockholding business which currently is a market of some £700m a year. GKN, itself a steelmaker, is a large customer of the steel stockholders: GKN engineering works do not have special arrangements with GKN Steelstock for steel supplies. For both reasons GKN activities therefore are of special interest to the independent stockholding companies. BSSC also worries the stockholders for two reasons. The acquisition of the desired BSSC stake in general steels will involve taking over or setting up companies generating £50m a year turnover. And the parent of BSSC—British Steel Corporation—supplies almost 60 per cent of the steel used in Britain. So far the

independent stockholders do not appear to have any grounds for complaint that the corporation has ever given special treatment to BSSC. But the possibility cannot be eradicated from the minds of those in the business. The man ultimately responsible to the British Steel Corporation Board for the policy of moving into steel stockholding is Mr. David Waterstone. BSC commercial director. Asked the reasons for the BSC's new policy towards stockholding he gives the following: "Before we entered the stockholding market half a dozen stockholding firms outside BSC could affect 45 per cent. of our home market. "As a commercial director, I can appreciate that it is bad for our business to lose touch with the far end-points of our markets. The new stockholding business provides that essential link. "There is no doubt that having a big stockholding business helps us to enhance our market clout a lot. "There is a sound profit motive. We expect to make good commercial profits from our



TOP BRITISH STEEL STOCKHOLDERS

Table with 2 columns: Rank, Name, Capital (£1,000). 1. GKN Steelstock (GKN subsidiary) 41,184; 2. British Steel Service Centres (BSC subsidiary) 26,900; 3. Glyndwed Distribution (Glyndwed subsidiary) 22,885; 4. C. Walker & Sons 15,550; 5. Brown & Tawse 11,279; 6. Dunlop & Ranken (600 Group subsidiary) 8,004; 7. Markland & England (Tube Investments subsidiary) 7,899; 8. Ash & Lacy 5,802; 9. Danko Gowerston 4,550; 10. John Williams of Cardiff 4,472; 11. Hall & Pickles (Hall Engineering subsidiary) 4,212; 12. Barrow Hopes (Tube Investments subsidiary) 4,014. Source: Greene & Co. Stockbrokers.

stockholding activities when they have been built to the size we consider right." So far BSSC's profits have had only a negligible impact upon the finances of the British Steel Corporation. However, Sir Charles Villiers, chairman of the corporation, is a man who puts profits high in his order of priorities and BSSC is being called upon to be profitable during its growth period. Mr. Keeler is working to directions to secure a 20 per cent. return upon capital over a rolling five-year period. Last year, a very poor year for the steel industry, BSSC returned £900,000, on employed capital of £40m. BSSC is intended to be a small co-ordinating organisation for BSC stockholding activities with the member companies acting as trading arms under their own names. The intention is that BSSC should keep a low profile. But on one matter both Mr. Keeler and Mr. Waterstone speak loudly and emphatically. They say that none of their stockholding operations receive any special treatment from BSC steelworks in any shape or form whatsoever. At GKN Steelstock, Norman Richards, the managing director, says GKN has gone into steel stockholding for three basic reasons: "It is a developing necessity for the country and one which fits in with other GKN activities." "We felt when we entered the industry that it was ready for restructuring." "Steel stockholding provides an excellent opportunity for a business to make money." Mr. Richards says that it is both inevitable and right that structural changes should be occurring in British steel stockholding. The British steel stockholder, he says, must run more nearly in parallel with the Continental Europe market. In consequence it must become more price-orientated. GKN Steelstock companies are not the cheapest suppliers but they make a point of reliability and ability to continue to supply customers during periods of shortages. BSSC can be expected to work in the same way. Mr. Keeler, of BSSC, is himself an old Miles Druce man. The net effect of the two big steel stockholders, both selling mainly home-produced steel, could be to encourage a swing back to home products rather than imported products throughout the stockholding business. Many stockholders began importing steel when the BSC was unable to supply them two years ago. The recession in steel demand has made it increasingly unlikely that BSSC will complete its expression in the stockholding market by setting down green field sites in the foreseeable future. BSSC would much prefer to develop in general steels stockholding by acquiring willing partners from among the ranks of the stockholders. But if no partners come forward when the market picks up, Mr. Keeler will consider alternatives. He cannot appear to stick with just 1 per cent. of the general steels stockholding market.

POINTMENTS Two Furness Withy executives join Board

J. E. Kerille and Mr. London, has already taken up residence in Dubai. Mr. Alan Wren, who will shortly take over the responsibilities of chief executive of the group's shipping division, Mr. L. J. McNeill of Arbutnot Latham, has been appointed manager of Oryx. Mr. Jon Prudence has been appointed to the Board of RICAS, a member of the Oryx Group. Mr. G. R. Digby and Mr. W. H. Morris have become directors of SPHERE DRAKE (UNDERWRITING) a subsidiary of the Alexander Howden Group. Mr. Malcolm W. Brown has joined STANLEY WESTON (INSURANCE BROKERS) as a director. He was previously with the Legal and General Assurance Society. Mr. Tom Rees has resigned as director of the RUNNYMEDE TRUST to take up a senior research post in the Home Office. Mr. H. G. A. Hoofst as chief adviser of ORYX INVESTMENTS, the Arab-British merchant bank based in Dubai. Mr. S. M. Pearce has been appointed to head buying and marketing at HALFORDS from Arbutnot Latham and Co. in July 1, reporting to Mr. Melville Johnston, the new chief executive. Mr. Pearce is a director and general manager of member company Maceas and he will retain responsibility as chief executive of that concern with Mr. K. J. Widdowson taking day-to-day control as general manager. Mr. Peter Ayrton has been appointed a director of SEALED AIR INTERNATIONAL CORPORATION. Mr. C. M. Sasserath, Mr. H. R. Coombs and Mr. A. Peit have been appointed directors of the newly formed WIGHAM POLAND TECHNICAL SERVICES. Mr. J. N. Thornely has been appointed managing director of INDUSTRIAL MOTIVATION. The company was formed last year to market the Quid-Each-Day incentive scheme where employees are mobilised to fight rising costs and are encouraged to eliminate unnecessary waste from their own jobs. Mr. Chris Bainbridge is joining THE ANNEX (a member of the Garrett Group of production companies) as managing director. He takes over from Robert Aarons, who is leaving the company for family reasons and will be associated with it on his consultancy role when she returns to work. Mr. David S. Van Pelt has been appointed senior vice-president by CITIBANK NA. He is based in London. Mr. John R. Stear has been elected an additional deputy chairman of the ASSOCIATION OF INVESTMENT TRUST COMPANIES. Lord Remnant and Mr. G. A. Stout continue as deputy chairmen. Mr. Norman Phillips, company secretary to JOHN WILLIAMS OF CARDIFF, has been made a director. The CRYSTAL ORGANISATION, car distributors, has made three appointments to its main Board, Mr. J. M. Evers (service), Mr. J. P. S. Thomas (sales), and Mr. T. Watson (administration). Mr. Peter C. H. Cook will be appointed to the Board of SIMON ENGINEERING on April 1 as finance director. He will be leaving Tube Investments, machine division, Coventry, where he has been divisional finance director and executive chairman of two operating companies. Mr. Malcolm D. Cogan has been appointed managing director of STANNAN LIFTS (LONDON). Mr. Cogan started with Stannah as a apprentice then went to Oils for 17 years.

RAMAR TEXTILES LIMITED INTERIM REPORT

Table with 3 columns: 26 weeks to 31 Oct. 1976, 26 weeks to 31 Oct. 1975, 52 weeks to 30 April 1976. Rows include Group turnover, Group profits before taxation, Group profit for the period attributable to members.

The estimated charge for taxation, which includes deferred taxation, has been calculated at 52%. Profits for the half year are, as previously intimated, higher than those for the comparable period last year. As indicated in the Chairman's Statement of the 7th October 1976, it was very difficult at that particular time to forecast the full year's results, but subject to unforeseen circumstances, it is now felt that they should be considerably better than those for the year to the 30th April, 1976. No interim dividend is recommended.

HAGGAS TEXTILES INTERIM STATEMENT. The Directors of JOHN HAGGAS LIMITED have declared an Interim Dividend in respect of the year ending 30th June, 1977, of 1p per share on the issued Ordinary Share capital. The dividend will be payable on 6th April, 1977, to shareholders whose names appear on the register of members at the close of business on 4th March, 1977. Table with 3 columns: Half Year ended 31st Dec 1976, Half Year ended 30th June 1977, Year ended 30th June 1976. Rows include Group Sales, Depreciation, Profit before Taxation, Profit after Taxation. JOHN HAGGAS LIMITED

HOME CONTRACTS BR lime freight order for £2m.

BRITISH RAIL FREIGHT has won a contract from the British Steel Engineering Construction, also in Corporation worth more than £2m, over the next four years to deliver 170,000 tonnes of lime annually. The lime, used in the basic oxygen steelmaking process, will go by rail from the Tunstead quarry of ICI to BSC's Port Talbot steelworks. FREDERICK COYLE AND CO. part of the Walter Lawrence Group, has been awarded a £178,000 contract for a factory extension at Chessington, Surrey, for Engelhardt Industries. ARC CONCRETE has been awarded a £120,000 contract to supply precast concrete pipes and manhole units for the final link of the M18 in Yorkshire. The order, placed by Dewport Engineering Construction, also includes flexible-jointed pipes up to 180 mm. in diameter. The Grangemouth branch of the FROENIX LUMBER COMPANY has received from Crane Fruehauf Containers an order worth more than £70,000 for Plymetal container door panels, to be delivered over the course of the next few months. SINDALL CONSTRUCTION, a member of the Sindall Group, has been awarded the Thames Barrier contract 5A by the Greater London Council, worth around £2m. This will consist of onshore works in connection with the Thames barrier project over the next four years.

WESTDEUTSCHE LANDESBANK GIROZENTRALE, ALGEMENE BANK NEDERLAND N.V., KUWAIT INVESTMENT COMPANY (S.A.K.), SWISS BANK CORPORATION (OVERSEAS) Limited, LIBRA BANK LIMITED, AFIN S.P.A., AL AHLI BANK OF KUWAIT (K.S.C.), A.E. AMES & CO. Limited, AMSTERDAM ROTTERDAM BANK N.V., ANDRESEN BANK A/S, ARAS FINANCE CORPORATION S.A.L., ARAB FINANCIAL CONSULTANTS COMPANY S.A.K., ASIAC - ASIAN INTERNATIONAL ACCEPTANCES & CAPITAL Limited, BACHE HALSEY STUART INC., JULIUS BAER INTERNATIONAL Limited, BANCA COMMERCIALE ITALIANA, BANCA DEL GOTTARDO, BANCA NAZIONALE DEL LAVORO, BANCO DI ROMA, BANKERS TRUST INTERNATIONAL Limited, BANK GUTZWILLER, KURZ, BUNGENER (Overseas) Limited, BANK LIES & HOPE NV, BANQUE ARABE ET INTERNATIONALE D'INVESTISSEMENT (S.A.I.), BANQUE BRUXELLES LAMBERT S.A., BANQUE FRANCAISE DU COMMERCE ET D'INDUSTRIE, BANQUE GENERALE DU LUXEMBOURG Societe Anonyme, BANQUE DE L'INDOCHINE ET DE SUEZ, BANQUE INTERNATIONALE A LUXEMBOURG S.A., BANQUE DE NEUFUIZE, SCHLUMBERGER, VALLET Limited, BANQUE NORDEUROPE S.A., BANQUE DE PARIS ET DES PAYS-BAS, BANQUE POPULAIRE SUISSE S.A. LUXEMBOURG, BANQUE DE L'UNION EUROPEENNE, BANQUE WORMS, BARNING BROTHERS & CO., Limited, BAYERISCHE HYPOTHEKEN- UND WECHSEL-BANK, BAYERISCHE LANDESBANK GIROZENTRALE, BAYERISCHE VEREINSBANK, JOH. BERENBERG, GOSSLER & CO., BERLINER BANK Aktiengesellschaft, BERLINER HANDELS- UND FRANKFURTER BANK, BLYTH EASTMAN DILLON & CO. International Limited, CHASE MANHATTAN Limited, CITICORP INTERNATIONAL GROUP, COMMERZBANK Aktiengesellschaft, COUNTY BANK Limited, CREDITANSTALT BANKVEREIN, CREDIT COMMERCIAL DE FRANCE, CREDIT LYONNAIS, CREDIT DU NORD, CREDITO ITALIANO (UNDERWRITERS) S.A., CREDIT SUISSE WHITEVELD Limited, DAIWA EUROPEAN, RICHARD DALS & CO., Bankiers, DELERÜCK & CO., DEN DANSKE BANK, a/1871 A/S, DEN NORSKE CREDITBANK, DEUTSCHE BANK Aktiengesellschaft, DEUTSCHE GIROZENTRALE - DEUTSCHE KOMMUNALBANK, DG BANK DEUTSCHE GENOSSENSCHAFTSBANK, DILLON, READ OVERSEAS CORPORATION, DRESNER BANK Aktiengesellschaft, EFFECTENBANK WARBURG Aktiengesellschaft, EUROIMMOBILIARE S.p.A. COMPAGNIA EUROPEA INTERMOBILIARE Limited, EUROPEAN BANKING COMPANY Limited, FIRST BOSTON (EUROPE) Limited, ROBERT FLEMING & CO. Limited, GIROZENTRALE UND BANK DER ÖSTERREICHISCHEN SPARKASSEN Aktiengesellschaft, GOLDMAN SACHS INTERNATIONAL CORP., HANDELSBANK N.V. (OVERSEAS) Limited, GEORG HAUCK & SOHN, HESSISCHE LANDESBANK - GIROZENTRALE, HILL SAMUEL & CO. Limited, E. F. HUTTON & CO. N.V., KIDDER PEABODY INTERNATIONAL Limited, KJØBENHAVNS HANDELSBANK, KLEINWORT, BENSON Limited, KREDITBANK N.V., KREDITBANK S.A. LUXEMBOURGÈSE, KUHN, LOEB & CO. INTERNATIONAL, KUWAIT FOREIGN TRADING CONTRACTING & INVESTMENT CO. (S.A.K.), KOMMERZBANK Aktiengesellschaft, KUMAIT INTERNATIONAL INVESTMENT CO. S.A.K., BANKHAUS HERMANN LAMPE Kommanditgesellschaft, LANDESBANK RHEINLAND-PFALZ - GIROZENTRALE, LANDESBANK SCHLESWIG-HOLSTEIN GIROZENTRALE, LAZARD BROTHERS & CO. Limited, LONDON MULTINATIONAL BANK (UNDERWRITERS) Limited, MANUFACTURERS HANOVER Limited, MERCK FINCK & CO., MERRILL LYNCH INTERNATIONAL & CO., R. METZLER SEEL, SOHN & CO., MORGAN GRENFELL & CO. Limited, MORGAN STANLEY INTERNATIONAL, THE NIKKO SECURITIES CO., (EUROPE) LTD., NOMURA EUROPE N.V., NORDEUTSCHE LANDESBANK GIROZENTRALE, ÖSTERREICHISCHE LÄNDERBANK Aktiengesellschaft, PIERSON, HELDRING & PIERSON N.V., PKBANKEN, POSTBANKEN, PRYVATBANKEN AKTIESELSKAB, SWANSON BROTHERS INTERNATIONAL Limited, J. HENRY SCHRODER WAGG & CO. Limited, SKANDINAVISKA ENSKILDA BANKEN, SMITH BARNBY, HARRIS UPHAM & CO. Incorporated, SOCIETE GENERALE, SOCIETE GENERALE DE BANQUES S.A., SPARBANKERNAS BANK, SUMITOMO FINANCE INTERNATIONAL, SVEDESKA HANDELSBANKEN, TRADE DEVELOPMENT BANK OVERSEAS INC., TRINKAUS & BURKHARDT, URSON BANK OF FINLAND LTD., URSON BANK OF NORWAY LTD., UNION DE BANQUES ARABES ET FRANÇAISES - U.B.A.F., VEREINS- UND WESTBANK Aktiengesellschaft, J. VOIT, SOBEL & CO., WESTFALENBANK Aktiengesellschaft, WESTLB INTERNATIONAL S.A., YAMUCHI INTERNATIONAL (EUROPE) Limited.

INTERNATIONAL FINANCIAL AND COMPANY NEWS

AMRO profit rises by 14%

BY MICHAEL VAN OS

AMSTERDAM, Feb. 15.

AMRO BANK, Holland's second largest commercial banking group, stated ahead of its annual report here to-night that total net profits amounted to Fls.184.2m. in 1976, representing an increase of 14.2 per cent. on the previous year's figure. It rose by 1976 increase was 27.9 per cent. excluding the contribution of Pierson, Holding or Pierson.

AIR FRANCE

Struggling to recover

BY ROBERT MAUTHNER IN PARIS

AIR FRANCE, the French state-owned airline, is flying high but only in the literal sense. Though the services it offers its clients have a high reputation, it is still struggling to pull out of the financial difficulties which, in common with other world airlines, hit the French company as the result of the world energy crisis in 1973.

With the passing of time, the problem of a replacement for the Caravelle has become increasingly acute. Air France, as M. Gerardet pointed out, will come out to the medium-haul market about six years after its main competitors who, by 1984 or 1985, will already be thinking in terms of replacing their Boeing 737s and DC-9s.

CA rejects statement by London banks

By Max Wilkinson

CREDITANSTALT - Bankers of the Austrian bank which is used by a consortium of London banks for non-payment of letters of credit, claims that a statement circulated by the consortium "in its presentation both in its content and in its form is completely misleading."

Abercom achieves margin improvement

BY RICHARD ROLFE

JOHANNESBURG, Feb. 15.

THE ENGINEERING group Abercom, whose founder and chairman Mr. Murray McLean resigned abruptly last year, has reported pre-tax profits up from R3.5m. to R3.5m. for the six months ended December 31 last.

AMERICAN NEWS

Bethlehem Steel sees poor quarter

NEW YORK, Feb. 15.

BETHLEHEM STEEL Corp. expects that due to several factors "first quarter results will be disappointing." Mr. Lewis W. Foy, the chairman told analysts' reports A.P.D. demand for the past five years, is a Montreal-based explorer and developer of natural resources.

Washington court after having already been made public, accused the company of raising \$6.5m. through the sale of debentures in 1973 ostensibly to pay for the construction of a 24-mile highway in Pannonia.

In a joint statement they said the new bank will retain Provincial's present name and president, Michel Belanger.

EUROBONDS

Norpipe returns for \$50m.

BY TONY HAWKINS

NORPIPE is to raise \$50m. in the Eurobond market with a 12-year issue (average life 9.6 years), on an indicated 8 1/2 per cent. coupon. The joint lead managers are Credit Suisse White Weld, First Boston (Europe) and N. M. Rothschild and Sons, who is running the books.

Chemical abandons broking service

CHEMICAL Bank, one of the larger New York City commercial banks, has abandoned its highly controversial stock broking service to selected customers.

Unity Bank to merge

PROVINCIAL BANK of Canada and Unity Bank of Canada announced last night they agreed in principle to merge, reports AP-DJ from Montreal.

Same again at Allianz

By Nicholas Colchester

BONN, Feb. 15. Allianz Versicherungs AG, largest West German insurance company will pay an undivided dividend of 20 per cent. according to the chairman Wolfgang Schieren.

SELECTED EURODOLLAR BOND PRICES MID-DAY INDICATIONS

Table with columns for Bond Name, Bid, Offer, Bid, Offer. Includes entries like Straights, Notes, Floating Rate Notes, Euro-Mark Bonds, and Convertibles.

Lloyds Bank Group now in Dubai.

Lloyds Bank International are pleased to announce the opening of their branch in Dubai.

The new branch provides a full range of banking services and is responsible for the development of all aspects of the international business of the Lloyds Bank Group in the United Arab Emirates.

LBI has recently arranged a £202.4 million medium-term sterling export credit to finance U.K. capital goods and services for the construction of an aluminium smelter complex at Jebel Ali, Dubai.

The Lloyds Bank Group already has branches and offices throughout Western Europe and Latin America in addition to a strong presence in the Pacific Basin and the United States.

Manager: M.K. Atkinson, P.O. Box 3766, Dubai, United Arab Emirates. Telephone 24151.



40/66 Queen Victoria St., London EC4P 4EL. Tel: 01-248 9822. A member of the Lloyds Bank Group.

Fellow subsidiaries of the Lloyds Bank Group: Lloyds Bank California, The National Bank of New Zealand.

LBI, the Bank of London & South America and their subsidiaries have offices in: Argentina, Australia, Bahamas, Bahrain, Belgium, Brazil, Canada, Cayman Islands, Chile, Colombia, Costa Rica, Ecuador, Egypt, El Salvador, France, Federal Republic of Germany, Guatemala, Guernsey, Hong Kong, Iran, Japan, Jersey, Malaysia, Mexico, Monaco, Netherlands, Nicaragua, Panama, Paraguay, Peru, Philippines, Portugal, Singapore, Spain, Switzerland, United Arab Emirates, United Kingdom, U.S.A., U.S.S.R., Uruguay, Venezuela.

AARONSON BROS. LIMITED

Manufacturers of Coritboard, Contiplas, Wood Veneers, Arapias, Lacanite, Armoflex, Spanboard, etc.

STATEMENT OF TRADING RESULTS

Year ended 30th September, 1976 (Subject to Final Audit)

Table with columns for 1976 and 1975, and rows for Group Sales, Exports, Profit before Taxation, Profit after Taxation and Minorities, Extraordinary Items (Net of Tax), Earnings per Share (fully diluted).

In previous years full provision has been made for the contingent liability of deferred taxation. It has been decided that the amount already provided at 1st October, 1975 is adequate for any liabilities that are likely to arise in the foreseeable future and therefore no further provision is necessary.

The earnings per share figure for 1975 has been adjusted to take account of the change in policy in dealing with deferred taxation.

The extraordinary items arise substantially from the closure and relocation of production units.

The Directors propose recommending the maximum permitted payment for the final dividend of 1.21519p per Ordinary Share making, with the interim dividend already paid, a total of 1.76519p per Ordinary Share (last year 1.60472p per share) absorbing £342,847 (last year £311,679). Subject to confirmation of the dividend at

the Annual General Meeting to be held on Wednesday, 30th March, 1977, dividend warrants will be posted 1st April for payment on 4th April, 1977 to all shareholders on the register at the close of business on 2nd March, 1977.

Now that the largest programme of expansion ever undertaken by the Group has been completed at a cost in excess of £5,000,000 over the past two years, the benefits of the cost savings and increase in productivity predicted in the last Annual Report are being realised.

The first few months of the current year already show a substantial increase in profits over the same period last year. The Group should continue along its solid path of growth and report a further material increase in profits for the current year, subject to any unforeseen circumstances. Meanwhile further capital expenditure projects are still being examined and undertaken.

Handwritten Arabic text at the bottom of the page.

FINANCIAL AND COMPANY NEWS

Stable capital market predicted for W. Germany

AULINE CLARK

GERMAN bankers are predicting a "smooth and tenacious" domestic capital market in 1977...

Esselte forecasts growth in 1976-77

STOCKHOLM, Feb. 15. ESSELTE, the Swedish office equipment, packaging and printing concern, forecasts in its nine-month interim report...

Stelux buys up Coxex shares

STELUX Manufacturing is to buy the remaining 50 per cent. of the issued share capital of Coxex not yet held by the company...

Mohan petitions

COURT PETITIONS are due to be filed on March 18 for the winding up of three Mohan property and investment group companies...

Oman changes investment rules

BARBARA CASASSUS

MUSCAT, Feb. 15.

OMANI Government has been generated inside the Sultanate, while Omanis have been silent partners and have not contributed fully to the country's economic development...

to the commercial law, the Government has introduced a fine of at least 5,000 Omani rials for foreigners and 1,000 Omani rials for Omanis...

Technical aid for Grand-Bazar

DS MAGASINS JELMOLI

ZURICH, Feb. 15.

DS MAGASINS JELMOLI stake in Grand-Bazar which it is willing to continue technical aid to SA Grand-Bazar if Agache-Wilout group before talks...

he means for example assisting the store and any future owners with buying stock through Jelmoli's own facilities...

AFRICAN GOLD MINES

Plenty of investment

BY RICHARD ROLFE IN JOHANNESBURG

THE shock of last year's price collapse to \$103, the African gold mining industry is preparing to spend \$1.5 billion on capital account...

expenditure tended to be a one-off job. The controlling house raised funds, sank shafts, equipped mills and reduction works...

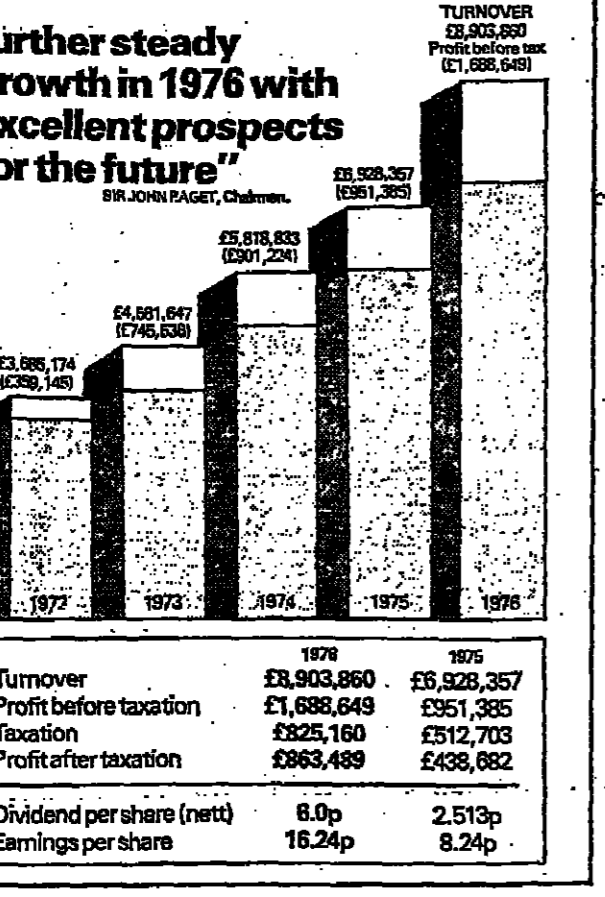
be preempted by the mines themselves and the resulting financing "gap" is no doubt one of the factors behind the Anglo-American-Rand Selection...

Expansion at Free State Saal-plans should cost another \$200 million and there is a further major programme at Vaal Reef...

Rising financing needs have coincided with increased difficulty in finding capital to invest. The one exception to this rule has been the large sums provided for future uranium deliveries...

With the established mines, the problem of finance is simplified. Free State Geduld, for example, has a R100m-plus programme to sink a new shaft and expand its tonnage...

TSL Thermal Syndicate Ltd. PO Box 8, Neptune Road, Wallsend, Tyne and Wear, NE26 6DG.



Inflation But this venerable system, which dates back to early days on the Rand, is no longer working. One problem is the long lead time on a new gold mine...

This kind of programme, which is quite common in the industry at present, can usually be financed out of the individual mine's cash flow. All capital expenditure is deductible before tax...

New scale

One problem, however, is that shareholders tend to be squeezed when mines undertake big capital programmes. Harmony, for example, passed its dividend last year in order to conserve funds for its R60m. programme...

For the mining houses themselves, the new scale of expenditure at existing mines also means less spare funds for funding needs elsewhere. In the past, for instance, the fabulously rich Free State Mines have generated big surpluses which have been placed with Anglo American and lent to other members of the group...

BANCO DO BRASIL S.A. U.S.\$40,000,000 Bearer Depository Receipts issued by Chemical Bank against a Floating Rate Promissory Note due 1982 of Banco do Brasil S.A. List of banks including London Multinational Bank, Credit Suisse White Weld Limited, etc.

U.S. \$30,000,000 Enso-Gutzeit Osakeyhtiö 8 1/2% Guaranteed Notes Due 1984. The Republic of Finland Credit Suisse White Weld Limited. List of banks including Kredietbank S.A., Hambros Bank Limited, etc.

WALL STREET INVESTORS AS MARKETS FOREIGN EXCHANGE

Fresh early rise on bargain hunting Pound improves GOLD MARKET

BY OUR WALL STREET CORRESPONDENT

Stocks on Wall Street recovered 57 1/2 points from a low of 827 1/2... The Dow Jones Industrial Average recorded a fresh gain of 8 1/2...

Financial Mincings, Tins, and Colliers hardened, but Coppers were occasionally lower... HONG KONG—Market recovered from a weak opening to close little changed with a firm undertone...

STERLING—Sterling gained ground fairly steadily in the foreign exchange market... The pound opened at \$1.6990 and may have received some support from the authorities...

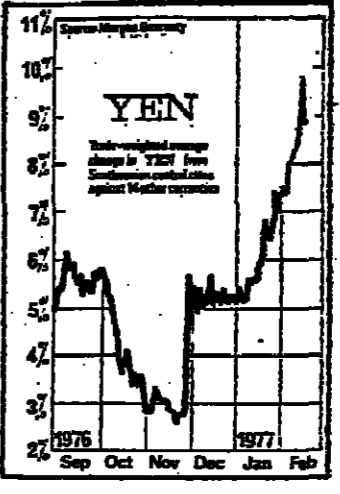


Table with columns for Gold, Silver, and various currencies. Includes Gold Bullion, Gold Coins, Silver, and various international currencies.

MONDAY'S ACTIVE STOCKS: Stocks Closing Change... American Airlines, American Express, American International...

OTHER MARKETS: Canada improves... Oils, Metals and Industrials led a broad uptrend in light early trading on Canadian Stock Markets yesterday...

EURO-CURRENCY INTEREST RATES: Short term... 4 1/2-5 1/2, 5 1/2-6 1/2, 6 1/2-7 1/2... Medium term... 7 1/2-8 1/2, 8 1/2-9 1/2, 9 1/2-10 1/2...

Table with columns for Rights Rates, Exchange Cross-Rates, and Forward Rates. Includes various international exchange rates and forward contract rates.

Table with columns for Foreign Exchanges, listing various international currencies and their exchange rates.

NEW YORK - DOW JONES: Table showing Dow Jones Industrial Average and other market indices for February 15, 1977.

MONTRÉAL: Table showing Montreal stock market indices and prices for February 15, 1977.

EURO-CURRENCY INTEREST RATES: Table showing interest rates for various currencies and terms.

FORWARD RATES: Table showing forward rates for various currencies and terms.

OTHER MARKETS: Table showing prices for various commodities and international currencies.

STANDARDS AND POORS: Table showing Standard & Poor's 500 Index and other market metrics.

JOHANNESBURG: Table showing Johannesburg stock market indices and prices.

EURO-CURRENCY INTEREST RATES: Table showing interest rates for various currencies and terms.

FORWARD RATES: Table showing forward rates for various currencies and terms.

OTHER MARKETS: Table showing prices for various commodities and international currencies.

NEW YORK: Table showing various New York stock market indices and prices.

CANADA: Table showing various Canadian stock market indices and prices.

PARIS: Table showing various Paris stock market indices and prices.

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AGRICULTURE AND RAW MATERIALS

Coffee tops 3,200 tonne

Richard Mooney... BE PRICES surged to peaks yesterday as a new of buying hit the market...

Report warns of danger to social contract

BY JOHN EDWARDS, COMMODITIES EDITOR

A WARNING that the social contract on wages and prices would be severely undermined by a devaluation of the "green pound" is to be given to the Labour Party national executive committee next week in a special discussion paper prepared by the party's research department.

First offer of Soviet softwood

By A Correspondent

EXPORTERS, the Soviet state selling organisation for forest products, made its first offer of softwood to the U.K. market last week for this season.

Worst-ever drought threatens crops

BY ART GARCIA

GOVERNOR Edmund Brown, Jr. of California, has left open the possibility of state-wide water rationing to combat what may become the worst drought in the state's history.

World silver surplus estimated

PARIS, Feb. 15. (G shortfall in world silver supply was turned into a surplus last year by a high of Indian exports and by Germany melting down its coins, hullion processors...

U.K. food bill 'to rise £600m.'

BY STUART ALEXANDER

THE LATEST EEC price proposals will add about £600m to the average per cent increase in farm prices, a devaluation of the "green pound" and the two final transitional steps to EEC price levels.

Big Common Market sugar surplus likely

BRUSSELS, Feb. 15.

THE EEC Commission said it estimates total EEC exportable sugar surplus for 1977-78 at 2.9m. tonnes.

Ripple effect

As agriculture, California's number one industry, last year produced total cash receipts of \$8.9bn., a record. The state grows 40 per cent of U.S. vegetables and 60 per cent of the nation's fruits and nuts, but California's farm income has been hit by a 75 per cent drop in this year's irrigation water allotments, and possibly more.

1.1m. customers

Directors of the East Bay Municipal Utility District voted Monday to restrict water for its 1.1m. customers in Alameda and Contra Costa counties...

MAX FURNACE OPERATION

EENWICH, Conn., Feb. 15. Max said its loss and aimed to lift the force majeure declared on February 10 to the failure of the blast ce at the Boss, Mo., lead ce.

Brussels bid to end pig subsidy scheme

BY ROBIN REEVES

A DATE at which the Government will be required to suspend payment of the special subsidy to pig producers of 50p a score is expected to be announced by the European Commission here tomorrow.

Vote on amended wool plan

SYDNEY, Feb. 15.

THE WOOL Industry Policy Committee will meet in Melbourne on Thursday to vote on a proposed scheme for the Australian Wool Corporation to buy a limited quantity of wool direct from farmers.

COMMODITY MARKET REPORTS AND PRICES

Table with columns for various commodities like Gold, Silver, Copper, Tin, Zinc, Lead, and their prices in different units.

BASE METALS

Table showing prices for base metals including Gold, Silver, Copper, Tin, Zinc, Lead, and their derivatives.

COFFEE

Table showing coffee prices for various types like Arabica and Robusta, with prices per 50kg bag.

SILVER

Table showing silver prices in different forms like Bullion, Fine, and various grades.

RUBBER

Table showing rubber prices for different grades like RSS, FSR, and others.

COCOA

Table showing cocoa prices for various types like B, C, and D, with prices per tonne.

SOYABEAN MEAL

Table showing soyabean meal prices for different grades and origins.

JUTE

Table showing jute prices for different grades and origins.

PRICE CHANGES

Table showing price changes for various commodities like Wheat, Flour, and other grains.

U.S. Markets

Table showing market prices for various commodities in the U.S., including Wheat, Corn, and Soybeans.

COTTON

Table showing cotton prices for different grades and origins.

PALM OIL

Table showing palm oil prices for different grades and origins.

WOOL FUTURES

Table showing wool futures prices for different grades and origins.

MEAT/VEGETABLES

Table showing prices for various meats and vegetables.

Canada exports less copper and nickel

Canada exports less copper and nickel... The Ministry said the bulk of earnings came from tin, with 20m. kilos of concentrates worth \$151m. and 9.8m. kilos of tin metal worth \$74m.

FINANCIAL TIMES

Table showing financial data including Dow Jones, Reuters, and Moody's indices.

Little relief to U.S. wheat

WASHINGTON, Feb. 15. A THAW during the week to February 13 gave little relief to the moisture shortage of the U.S. winter wheat crop...

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Advertisement for Tax Free Trading on Commodity Futures, featuring Edward Billington & Son Limited and contact information.

STOCK EXCHANGE REPORT

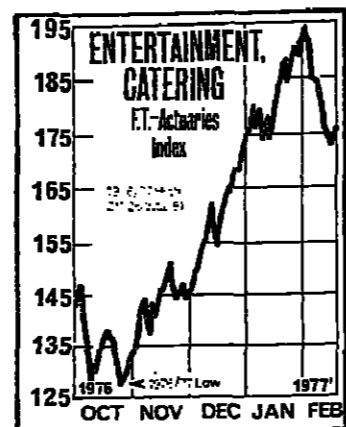
Partial rally on reasonable demand in light trading

Gilts up to £1 1/2 better and share index up 9.8 at 376.1

Account Dealing Dates
Option
First Declared Last Account
Dealings Dealings Day

Having had time to assess the explanations put forward for last month's largest-ever trade deficit, the market in British Funds decided that Monday's sharp fall had been overdue. Buyers took the same view and immediately began looking for stocks, despite higher opening quotations, a development which, after a lively morning trade, extended the recovery finally to a full point and more at the longer end. Also making an impression on sentiment was the feeling that if interest rates indeed stabilised, the yields offered by both short and longer-dated maturities were still attractive. A similar trading pattern among the mediums and nearer issues brought a recovery relative with the falls sustained on the previous day. Thus, the former ended a point or so higher and the shorts rarely more than a firm. Monday's newcomer, Finance for Industry 14 per cent, 1982, stock put up a spirited performance and in 10:00 am form closed near the day's best at 11 1/2, or 1 1/2 premium, for a net gain of 1/2. Corporation followed Monday's reaction in the main funds and lost a point in places.

Midland ended 10 higher at 255p. In Foreign issues, Hongkong and Shanghai added 4 to 358p; the preliminary results are due next Tuesday. Discounts rallied in sympathy with gilt-edged securities. Cater Ryder did particularly well at 240p, up 15. Alexanders rose 10 to 180p as did Allen Harvey and Ross, 350p, with Union similarly higher at 295p. Awaiting the next move by Provident Financial (2 better at 77p) in the bid situation, Catter Holdings edged forward 2 to 40p in Hire Purchase, where Wagon Finance ended 3 up at 54p.



Insurance took a turn for the better but the volume of trade left much to be desired. Commercial Union picked up 5 to 132p and Royals added 8 to 300p, while Sun Alliance was 7 to the good at 265p. C. E. Heath, 7 up at 285p, were prominent again in Brokers.

Lloyds rally
Monday's sharp falls were retrieved by the big four Banks yesterday as buyers returned in anticipation of the forthcoming dividend season which begins in Lloyds on Friday. Down 10 on Monday, the latter picked up 12 to 187p, while similar improvements were seen in Barclays, 21p, and National Westminster, 21p.

In the sharply increased profits with an advance of 17 to 147p. Among improvements of 4 were recorded in Leonard Fairclough, 182p, and Magnet and Southern, 127p. Marley hardened 2 to 54p as did Marchwiel to 123p and Tarmac to 140p. Norwest, 101p, on the other hand, lost 2 of the previous day's speculative gain of 6 1/2 which owed to Press suggestions of bid possibilities. Heywood Williams lost 3 to 28p.

Down 15 on Monday, ICI were marked up 5 to 330p at the outset and remained at that level all day in Chemicals; the results are due on February 23. A weak market late following a weak comment ahead of the results due on March 8. Fisons edged forward 2 to 283p, while Albright and Wilson ended a similar amount better at 90p in front of today's results.

A disappointing set of retail sales figures failed to deter Stores, which played their part in the rally. UDS added 3 at 37p and Marks and Spencer were a penny dearer at 97p. Press comment in front of today's AGM attracted renewed interest in Burton, the Ordinary closing 3 to the good at 71p and the A 2 market at 59p. Mothercare hardened 2 to 216p as did W. R. Smith A to 352p.

Decca better
Leading Electricals staged a useful rally, with GEC closing 6 higher at 185p and EMI 3 better at 204p, while Plenus were 2 to the good at 64p. Awaiting further news of its Milgo Electronics bid, Rael Electronics firmed 8 to 102p, while Decca, 90p, and an unexpected recovery of 7 of the recent ground lost on the profits warning for the full year.

Watshams wanted
The miscellaneous Industrial sector staged a useful rally from the depressed levels which followed Monday's announcement of a record trade deficit in January. A firm performance by Girdling helped and with a combination of bear closing and cheap buying, prices improved quite sharply. Unilever rose 14 to 424p and Glaxo added 12 to 430p, while improvements of between 8 and 12p were recorded in Rank Organisation, 170p, Reckitt and Coleman, 340p, and Becham 385p. Elsewhere, further consideration of the recent sale of a subsidiary helped Watshams gain 8 to 150p.

ACTIVE STOCKS

Table listing active stocks with columns for Stock, Denomination, Closing, Change on day, and 1976-77 high and low.

NEW HIGHS AND LOWS FOR 1976/77

Table listing new highs and lows for various sectors including Textiles, Buildings, Engineering, and Foodstuffs.

MONEY MARKET

Interest rates decline
Bank of England Minimum Lending Rate 12 per cent. (since February 3, 1977)
Short-term fixed period interest rates declined as sharply in the London money market yesterday. Market sentiment appeared to indicate that any further fall in rate in the Bank of England Minimum Lending Rate is unlikely in the near future, and lenders of funds tended to concentrate business on the shorter end of the market, leading to fairly sharp falls in periods of up to three months.

FINANCIAL TIMES STOCK INDICES

Table showing various stock indices like Government Securities, Industrial Ordinary, Gold Mines, etc.

HIGHS AND LOWS S.E. ACTIVITY

Table showing high and low prices for various sectors like Govt. Secs, Fixed Int., Ind. Ord., and Gold Mines.

Associated, 60p, and Estates House, 205p, put on 2 and 4 respectively. Bishopsgate Property and General Investments, at 41p, recouped a penny of the previous day's loss of 3 which news that the company has extended its borrowing limits and is continuing negotiations for a moratorium with the relevant lenders. Financials were notably profit-taking in the early afternoon. R. Kitcher Taylor, which, at 54p, gave up 6 of the previous day's gain of 17. Grimsbury eased a penny to 11p in front of today's interim figures, but small buying pushed Park Place up 1 1/2 to 14p and Charterhouse 2 to 48p.

F.T.-ACTUARIES SHARE INDICES

These indices are the joint compilation of the Financial Times, The Institute of Actuaries and the Faculty of Actuaries

Large table showing FT-Actuaries Share Indices for various equity groups and sub-sections as of Tuesday, February 15, 1977.

Table showing Fixed Interest rates for various instruments like Consols 2 1/2% yield, 20-yr. Govt. Stocks, etc.

AMAX MARKED DOWN

A feature of mining shares markets was the fall to 136p in Amax which followed reports of a bearish circular issued by a leading American broker's preliminary figures.

BASE LENDING RATES

Table listing base lending rates for various banks and financial institutions.

RISES AND FALLS

Table showing rises and falls in various financial metrics like British Funds, Overseas Traders, etc.

CORAL INDEX

Table showing Coral Index and Insurance Basis Rates.

AUTHORISED UNIT TRUSTS

Table listing various unit trusts and fund managers, including names like 'Bridge Fund Managers', 'Discretionary Unit Fund Managers', and 'M & G Group'. Each entry includes details such as fund names, dates, and performance metrics.

PROMIUM PLATING COMPANY FOR SALE. Turnover £250,000 p.a. West Midlands area. Modern factory - Full effluent services. Principals only write to Box E9420.

COMPANY NOTICES. S.A. ANDRE CITROEN 1967-73-82 6 3/4%. Loan of \$US20,000,000. The redemption on 15th March, 1977, for which a sum of \$92,000,000 is planned, has been entirely repurchased on the Stock Exchange.

IMPERIAL GROUP LIMITED. NOTICE IS HEREBY GIVEN that the Transfer Books of the Ordinary Shares of Imperial Group Limited will be closed for one day only on 22nd February 1977.

NEW LINE TO LIVERPOOL. You can now phone a local number for the Financial Times Index and Business News Summary - which includes foreign exchange, securities, gold or any of the other commodities.

VEST IN 50,000 BETTER TOMORROWS!! 500 people in the United Kingdom suffer from progressively lysing MULTIPLE SCLEROSIS - the cause and cure of which are still unknown - HELP US BRING THEM RELIEF & HOPE.

INSURANCE, PROPERTY, BONDS

Table listing insurance, property, and bond companies and their products. Includes entries for 'Abbey Life Assurance Co. Ltd.', 'Arrow Life Assurance', 'Barclays Life Assur. Co. Ltd.', and many others.

OFFSHORE AND OVERSEAS FUNDS

Table listing offshore and overseas funds, including 'Arbutnot Securities (C.I.) Limited', 'Bancroft Securities Ltd.', 'Bancroft Securities Ltd.', and various international investment funds.

WEST IN 50,000 BETTER TOMORROWS!! (Continuation of the Multiple Sclerosis awareness campaign). Please help - Send a donation today to: Room F.1. The Multiple Sclerosis Society of G.B. and N.I.

NOTES. Prices do not include a premium, except where indicated and are in pounds unless otherwise indicated. Yield is shown in last column.

INDUSTRIALS—Continued

Table of industrial stock prices including companies like ICI, BP, and various engineering firms.

MOTORS, AIRCRAFT TRADES

Table of motor and aircraft trade stock prices including companies like Rover, Jaguar, and various aircraft manufacturers.

PROPERTY—Continued

Table of property stock prices including various real estate and construction companies.

TRUSTS—Continued

Table of trust stock prices including various investment and management trusts.

TRUSTS—Continued

Table of trust stock prices, continuing from the previous section.

International Finance DAIWA SECURITIES logo and branding.

MINES—Continued

Table of mine stock prices including companies like Anglo American, De Beers, and various metal mines.

INSURANCE

Table of insurance stock prices.

PROPERTY

Table of property stock prices.

TRUSTS, FINANCE, LAND

Table of trusts, finance, and land stock prices.

FINANCE, LAND, ETC.

Table of finance, land, and other stock prices.

FINANCE

Table of finance stock prices.

DIAMOND AND PLATINUM

Table of diamond and platinum stock prices.

NOTES: Unless otherwise indicated prices and asset dividends are in pence and denominated in pence. Estimated price movements are based on latest annual reports and are not intended to be a forecast of future performance.

REGIONAL MARKETS

Table of regional market stock prices including various international and regional companies.

OPTIONS

Table of options and 3-month call rates for various stocks.

German nuclear rally banned

BY NICHOLAS COLCHESTER BONN, Feb. 15. THE DEMONSTRATION planned for Saturday against the atomic power station at Brokdorf...

Krupp confirms oil barter with Iran

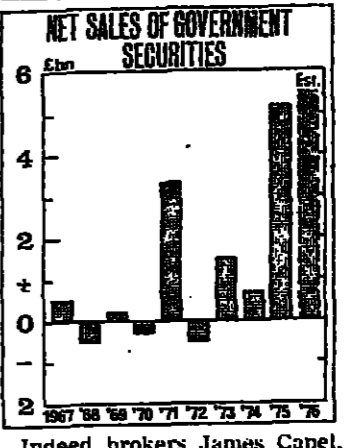
BY ADRIAN DICKS BONN, Feb. 15. FRIEDRICH KRUPP, the West German steel and engineering group, confirmed today that it has concluded a major barter deal with Iran for crude oil in exchange for manufactured goods...

Power prices up 11% next year

By Roy Hodson ELECTRICITY PRICES will rise by 11 per cent, on average during the financial year April 1977 to March 1978 if, as the electricity authorities expect, there is a sharp rise in coal prices this spring...

Measuring future funding needs

It is now three weeks since the Government Broker was last operating a tap stock, and it looks increasingly as though the authorities have entered calmer financial waters after two years in which the need to sell massive quantities of gilt-edged capital markets...



Examiners to give verdict to-morrow on ships Bill

BY RUPERT CORNWELL, LOBBY STAFF THE PARLIAMENTARY examiners will give their long-awaited verdict to-morrow morning on whether the Government's bitterly fought Bill to nationalise the aircraft and shipbuilding industries is hybrid...

Fuel bill

The CEBG fuel bill accounts for nearly 60 per cent of its costs. Coal is costing the Board more than £1bn. in the current year. The expected extra 15 per cent, on coal prices would add £170m. to the Board's fuel bill.

Interest rates

For the first time since early November the coupon rate on the weekly issue of Local Authority yearling bonds rose yesterday. But this says more about Monday's shakeout in the gilt-edged market than about the general trend in interest rates.

Labour MPs back status quo in electing party leader

BY RICHARD EVANS, LOBBY EDITOR LABOUR MPs voted by a two-to-one majority last night to retain their long-established right to elect the Leader of the party. The decision, taken while a working party of the National Executive Committee is studying new methods of electing a leader, is likely to bring the Parliamentary Labour Party into conflict with the NEC and the party conference.

Night rate

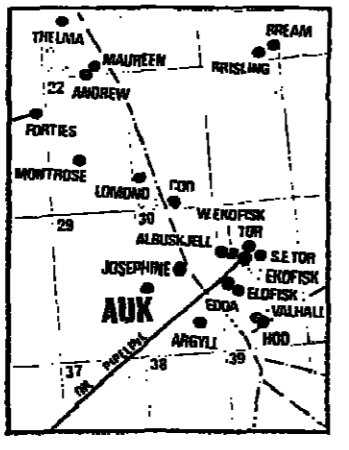
Assuming the 15 per cent spring price rise for coal, the night rate charge for electricity on the bulk supply tariff will be 2.36p per kilowatt hour against 2.04p at present—a 15 per cent increase.

Wedds on gilts

Jobbers Wedd Duff Mordaunt are offering new bonds for 1977 of their established and respected name. The more conservative version is being marketed to reflect "something of prestige associated with gilt-edged market and those who have dealings in it."

Shell/Esso strikes new field by accident close to Auk

BY RAY DAFTER, ENERGY CORRESPONDENT THE SHELL-ESSO group has inadvertently made a new oil discovery close to its commercial Auk field, some 185 miles offshore of Dundee. Shell-Esso found the edge of a new reservoir while drilling a development well from the Auk production platform...



Output rise insufficient to check unemployment

BY PETER RIDDELL, ECONOMICS CORRESPONDENT INDUSTRIAL PRODUCTION has improved slightly in recent months, although the growth rate is still very low and not nearly enough to prevent another increase in unemployment. The Central Statistical Office announced yesterday that the all-industries index of output was nearly 1.5 per cent higher in the final quarter of last year than in the previous three months.

Table with 3 columns: Year, All Industries, Total Manufacturing. Data for 1975 and 1976 quarters.

Sterling and shares recover

BY MICHAEL BLANDIN THE POUND and the stock markets recovered yesterday after the setback suffered on Monday in response to the poor trade figures for January. In the foreign exchange market the authorities put a sharp squeeze on short-time Eurosterling interest rates.

Weather

UK TO-DAY BRIGHTER, showery conditions spreading from the W. London, S.E. E. M.W. Cent. N. England. Cloudy with rain, becoming Cent. S., S.W. England, W. Midlands, Channel, Wales. Showers, sunny intervals. Max. 9C (48F).

Table with 2 columns: City, Day, Night. Lists weather forecasts for various cities like Alexandria, Amstrdm, Athens, etc.

Table with 2 columns: City, Day, Night. Lists holiday resort forecasts for various locations like Ajapeco, Alanya, Antalya, etc.

CITY OFFICES ALL MODEST RENTS AND EXCELLENT LOCATIONS. Listings for BISHOPSGATE EC2, HOLBORN VIADUCT EG1, GANNON STREET EC4, GILFLOTT ST. EC2, MOORGATE, EC2 (Globe), GANNON ST. EC4, CHISWELL ST. EG1, GRACECHURCH ST. EC3.